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&lt;210&gt; 970

&lt;211&gt; 263

&lt;212&gt; PRT

&lt;213&gt; Homo sapiens

&lt;400&gt; 970

Met	Thr	Met	His	Phe	Cys	Met	Met	Ile	Asn	Met	Asn	Phe	Arg	Val	Asn
1				5					10					15	
Leu	His	Arg	Met	Pro	Met	Arg	His	Arg	Lys	Lys	Ala	Ala	Asp	Lys	Asn
			20						25					30	
Leu	Thr	Leu	Pro	Ser	Leu	Val	Cys	Glu	Val	Leu	Asp	Leu	Met	Val	Glu
			35					40				45			
Phe	Ile	Val	Thr	His	Met	Met	Lys	Glu	Phe	Pro	Met	Asp	Leu	Tyr	Ile
	50					55					60				
Arg	Cys	Ile	Gln	Val	Val	His	Lys	Leu	Leu	Cys	Tyr	Gln	Lys	Lys	Cys
	65					70				75				80	
Arg	Val	Arg	Leu	His	Tyr	Thr	Trp	Arg	Glu	Leu	Trp	Ser	Ala	Leu	Ile
			85						90					95	
Asn	Leu	Leu	Lys	Phe	Leu	Met	Ser	Asn	Glu	Thr	Val	Leu	Leu	Ala	Lys
			100					105					110		
His	Asn	Ile	Phe	Thr	Leu	Ala	Leu	Met	Ile	Val	Asn	Leu	Phe	Asn	Met
		115					120						125		
Phe	Ile	Thr	Tyr	Gly	Asp	Thr	Phe	Leu	Pro	Thr	Pro	Ser	Ser	Tyr	Asp
	130					135					140				
Glu	Leu	Tyr	Tyr	Glu	Ile	Ile	Arg	Met	His	Gln	Ser	Phe	Asp	Asn	Leu
	145				150					155				160	
Tyr	Ser	Met	Val	Leu	Arg	Leu	Ser	Thr	Asn	Ala	Gly	Gln	Trp	Lys	Glu
			165					170						175	
Ala	Ala	Ser	Lys	Val	Thr	His	Ala	Leu	Val	Asn	Ile	Arg	Ala	Ile	Ile
			180					185					190		
Asn	His	Phe	Asn	Pro	Lys	Ile	Glu	Ser	Tyr	Ala	Ala	Val	Asn	His	Ile
			195				200					205			
Ser	Gln	Leu	Ser	Glu	Glu	Gln	Val	Leu	Glu	Val	Val	Arg	Ala	Asn	Tyr
	210					215					220				
Asp	Thr	Leu	Thr	Leu	Lys	Leu	Gln	Asp	Gly	Leu	Asp	Gln	Tyr	Glu	Arg
	225				230					235				240	
Tyr	Ser	Glu	Gln	His	Lys	Glu	Ala	Ala	Phe	Phe	Lys	Glu	Leu	Val	Arg
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Ser	Ile	Ser	Thr	Asn	Val	Arg									

260

<210> 971  
 <211> 337  
 <212> DNA  
 <213> Homo sapiens

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 337

<210> 972  
 <211> 112  
 <212> PRT  
 <213> Homo sapiens

<400> 972  
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 Asp Ser Gly Leu Arg Gly Arg Gly Gly Ala Gly Phe Pro Thr Gly Val  
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 Lys Trp Ser Phe Val Pro Gln Asn Asn Pro Asn Pro Lys Tyr Leu Val  
 35 40 45  
 Val Asn Gly Asp Glu Ser Glu Pro Gly Thr Cys Lys Asp Met Pro Leu  
 50 55 60  
 Ile Met Ala Ser Pro His Thr Leu Val Glu Gly Ala Leu Ile Ser Arg  
 65 70 75 80  
 Tyr Ala Phe Gly Ser Glu Gln Ala Phe Ile Tyr Leu Arg Gly Glu Val  
 85 90 95  
 Val Gln Val Ala Arg Arg Leu Glu Glu Lys Lys Met Arg Xaa Xaa  
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<210> 973  
 <211> 360  
 <212> DNA  
 <213> Homo sapiens

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<210> 974

<211> 91

<212> PRT

<213> Homo sapiens

<400> 974

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Tyr	Arg	His	His	Leu	Gly	Thr	Ser	Gln	Thr	Ile	Arg	Phe	Ser	Gly	Pro
			20					25					30		
Thr	Gly	Ser	Thr	Glu	Ser	Gly	Thr	Gln	Gly	Phe	Gln	His	Ile	Leu	Arg
			35				40				45				
Gly	Asp	Ser	Ser	Gly	Cys	Val	Thr	Leu	Arg	Thr	Thr	Gly	Lys	Val	Ala
	50				55					60					
Leu	Gly	Ser	Glu	Ile	Arg	Val	His	Ile	Leu	Gly	Leu	Pro	Leu	Thr	Asp
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Cys	Asn	Gly	Gly	Gln	Val	Thr	Cys	Arg	Ala	Gln					
				85					90						

<210> 975

<211> 2604

<212> DNA

<213> Homo sapiens

<400> 975

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 180  
 ttggcattag cctggaagag gtccctggtga acgagtttac ccgcgcgaag catcttgaac  
 240  
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 300  
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<210> 976

<211> 411

<212> PRT

<213> Homo sapiens

<400> 976

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Asn	Val	Val	Arg	Arg	Val	Phe	Gly	Arg	Ile	Arg	Arg	Phe	Phe	Ser	Arg
			20				25					30			
Arg	Arg	Asn	Glu	Pro	Thr	Leu	Pro	Arg	Glu	Phe	Thr	Arg	Arg	Gly	Arg
		35					40				45				
Arg	Gly	Ala	Val	Ser	Val	Asp	Ser	Leu	Ala	Glu	Leu	Glu	Asp	Gly	Ala
		50				55					60				
Leu	Leu	Leu	Gln	Thr	Leu	Gln	Leu	Ser	Lys	Ile	Ser	Phe	Pro	Ile	Gly
65					70					75				80	
Gln	Arg	Leu	Leu	Gly	Ser	Lys	Arg	Lys	Met	Ser	Leu	Asn	Pro	Ile	Ala
			85						90				95		
Lys	Gln	Ile	Pro	Gln	Val	Val	Glu	Ala	Cys	Cys	Gln	Phe	Ile	Glu	Lys
			100					105					110		
His	Gly	Leu	Ser	Ala	Val	Gly	Ile	Phe	Thr	Leu	Glu	Tyr	Ser	Val	Gln
			115				120					125			
Arg	Val	Arg	Gln	Leu	Arg	Glu	Glu	Phe	Asp	Gln	Gly	Leu	Asp	Val	Val
			130			135					140				
Leu	Asp	Asp	Asn	Gln	Asn	Val	His	Asp	Val	Ala	Ala	Leu	Leu	Lys	Glu
145					150					155				160	
Phe	Phe	Arg	Asp	Met	Lys	Asp	Ser	Leu	Leu	Pro	Asp	Asp	Leu	Tyr	Met
			165						170					175	
Ser	Phe	Leu	Leu	Thr	Ala	Thr	Leu	Lys	Pro	Gln	Asp	Gln	Leu	Ser	Ala
			180				185						190		
Leu	Gln	Leu	Leu	Val	Tyr	Leu	Thr	Pro	Pro	Cys	His	Ser	Asp	Thr	Leu
			195				200					205			
Glu	Arg	Leu	Leu	Lys	Ala	Leu	His	Lys	Ile	Thr	Glu	Asn	Cys	Glu	Asp
			210			215					220				
Ser	Ile	Gly	Ile	Asp	Gly	Gln	Leu	Val	Pro	Gly	Asn	Arg	Met	Thr	Ser
225					230					235				240	
Thr	Asn	Leu	Ala	Leu	Val	Phe	Gly	Ser	Ala	Leu	Leu	Lys	Lys	Gly	Lys
			245						250					255	
Phe	Gly	Lys	Arg	Glu	Ser	Arg	Lys	Thr	Lys	Leu	Gly	Ile	Asp	His	Tyr
			260				265					270			
Val	Ala	Ser	Val	Asn	Val	Val	Arg	Ala	Met	Ile	Asp	Asn	Trp	Asp	Val

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Trp Lys Ser Ser Pro Glu Ala Leu Asp Phe Ile Arg Arg Arg Asn Leu
  305              310              315              320
Arg Lys Ile Gln Ser Ala Arg Ile Lys Met Glu Glu Asp Ala Leu Leu
      325              330              335
Ser Asp Pro Val Glu Thr Ser Ala Glu Ala Arg Ala Val Leu Ala
      340              345              350
Gln Ser Lys Pro Ser Asp Glu Gly Ser Ser Glu Glu Pro Ala Val Pro
      355              360              365
Ser Gly Thr Ala Arg Ser His Asp Asp Glu Glu Gly Ala Gly Asn Pro
      370              375              380
Pro Ile Pro Glu Gln Asp Arg Pro Leu Leu Arg Val Pro Arg Glu Lys
  385              390              395              400
Glu Ala Lys Thr Gly Val Ser Tyr Phe Phe Pro
      405              410

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&lt;210&gt; 977

&lt;211&gt; 378

&lt;212&gt; DNA

&lt;213&gt; Homo sapiens

&lt;400&gt; 977

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  378

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&lt;210&gt; 978

&lt;211&gt; 126

&lt;212&gt; PRT

&lt;213&gt; Homo sapiens

&lt;400&gt; 978

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Arg Val Lys Gly Ala Ile Gln Arg Ser Thr Glu Thr Gly Leu Ala Val
  1              5              10              15
Glu Met Pro Ser Arg Thr Leu Arg Gln Ala Ser His Glu Ser Ile Glu
      20              25              30
Asp Ser Met Asn Ser Tyr Gly Ser Glu Gly Asn Leu Asn Tyr Gly Gly
      35              40              45
Val Cys Leu Ala Ser Asp Ala Gln Phe Ser Asp Phe Leu Gly Ser Met
      50              55              60
Gly Pro Ala Gln Phe Val Gly Arg Gln Thr Leu Ala Thr Thr Pro Met

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65		70		75		80									
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Asp	Ile	Ile	Gln	Ala	Arg	Gly	Leu	Thr	Ala	Lys	Pro	Gly	Ser	Lys	Thr
			100					105					110		
Leu	Pro	Ala	Ala	Tyr	Ile	Lys	Ala	Tyr	Leu	Leu	Glu	Met	Ala		
		115					120					125			

&lt;210&gt; 979

&lt;211&gt; 3500

&lt;212&gt; DNA

&lt;213&gt; Homo sapiens

&lt;400&gt; 979

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&lt;210&gt; 980

&lt;211&gt; 73

&lt;212&gt; PRT

&lt;213&gt; Homo sapiens

&lt;400&gt; 980

Met	Ser	Cys	Ser	Pro	Pro	Val	Ile	Gln	Pro	Gly	Lys	Gln	Pro	Pro	Pro
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Leu	Ala	Gln	Gly	Arg	Gly	Cys	Arg	Gln	Gly	Lys	Gly	His	Trp	Pro	Pro
		20						25				30			
Cys	Phe	Gln	Val	Leu	Thr	Ala	Ser	Gly	Trp	Ser	Leu	Glu	Ala	Thr	Glu
		35						40				45			
Glu	Arg	Asn	Ala	Trp	Leu	Arg	Ala	Ala	Glu	His	Ser	Glu	Ala	Ser	Arg
	50					55					60				
Glu	Asp	Ser	Arg	Pro	Ala	Arg	Ala	Pro							
65						70									

&lt;210&gt; 981

&lt;211&gt; 404

&lt;212&gt; DNA

&lt;213&gt; Homo sapiens

&lt;400&gt; 981

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<210> 982  
 <211> 134  
 <212> PRT  
 <213> Homo sapiens

<400> 982  
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 35 40 45  
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 50 55 60  
 Glu Ala Gly Ala Arg Gly Gly Ala Gly Asn His Arg Phe Gly Gly Asp  
 65 70 75 80  
 Arg Pro Gly Ser Asp Arg Val Leu Gly Arg Gln Arg Leu Gln Gln Pro  
 85 90 95  
 Arg His Leu Gln Pro Ser Gly Ala Pro Asp Gln Ala Cys Gly Gly Thr  
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 Ala Ser Gly Ala Gln Gly Gly Ala Pro Leu Pro Pro Ala His Cys Pro  
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 Gly Ser Glu Pro Gly Arg  
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 <212> DNA  
 <213> Homo sapiens

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<210> 984  
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 <212> PRT  
 <213> Homo sapiens

<400> 984  
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 20 25 30  
 Ile Thr Leu Asn Ile Thr His Ser Ser Pro Ala Thr Leu Ala Ser Leu  
 35 40 45  
 Leu Phe Pro Lys Arg Ala Arg Tyr Pro Ser Phe Ser Gly Pro Leu Tyr  
 50 55 60  
 Leu Phe Phe Ser Leu Pro Glu Thr Pro Phe Leu Leu Asn Asn Leu Met  
 65 70 75 80  
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 85 90 95  
 Val Phe Pro Asp Gln His Ile  
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 <212> DNA  
 <213> Homo sapiens

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<210> 986  
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 <212> PRT  
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<400> 986  
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	20	25	30
Ala Asn Phe Lys Ala His Asp Leu Lys Leu Val Thr Glu Ile Asn His			
	35	40	45
Leu Asp Asn Gln Ile Phe Ile Asp Tyr Ala Lys Leu Ile Lys Glu Ser			
	50	55	60
Asp Ala Leu Pro Val Asp Gln Gln Val Ala Phe Leu Asn Asn Met			
	65	70	75
Gln Ser Ile Ile Asp Gly Lys Pro Glu Leu Asn Ile Thr Glu Leu Ser			
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Gly Phe			

&lt;210&gt; 987

&lt;211&gt; 4224

&lt;212&gt; DNA

&lt;213&gt; Homo sapiens

&lt;400&gt; 987

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4224

&lt;210&gt; 988

&lt;211&gt; 873

&lt;212&gt; PRT

&lt;213&gt; Homo sapiens

&lt;400&gt; 988

Ala His Lys Tyr Leu Pro Ala Leu Asp Glu Phe Pro His Pro Pro Lys  
 1 5 10 15  
 Arg Leu Arg Ser Asp Pro Asp Ala Cys Pro Thr Met Pro Leu Leu Ala  
 20 25 30  
 Met Leu Leu Arg Gly Leu Thr Gln Ile Gln Ser Arg Ile Leu Gly Pro  
 35 40 45  
 Gly Arg Lys Cys Cys Ala Leu Ala Asn Leu Ala Asp Met Leu Thr Val  
 50 55 60  
 Phe Ala Leu Thr Glu Asp Asp Pro Gln Glu Val Ser Ala Thr Val Tyr  
 65 70 75 80  
 Leu Asp Lys Leu Ala Thr Val Ile Ser Val Trp Asn Ser Asp Thr Gln  
 85 90 95  
 Asn Pro Tyr His Gln Gln Ala Leu Ala Glu Lys Val Lys Glu Ala Glu  
 100 105 110  
 Arg Asp Val Ser Leu Thr Ser Leu Ala Lys Leu Pro Ser Glu Thr Ile  
 115 120 125  
 Phe Val Gly Cys Glu Phe Leu His His Leu Leu Arg Glu Trp Gly Glu  
 130 135 140  
 Glu Leu Gln Ala Val Leu Arg Ser Ser Gln Gly Thr Ser Tyr Asp Ser  
 145 150 155 160  
 Tyr Arg Leu Cys Asp Ser Leu Thr Ser Phe Ser Gln Asn Ala Thr Leu  
 165 170 175  
 Tyr Leu Asn Arg Thr Ser Leu Ser Lys Glu Asp Arg Gln Val Val Ser  
 180 185 190  
 Glu Leu Ala Glu Cys Val Arg Asp Phe Leu Arg Lys Thr Ser Thr Val  
 195 200 205  
 Leu Lys Asn Arg Ala Leu Glu Asp Ile Thr Ala Ser Ile Ala Met Ala  
 210 215 220  
 Val Ile Gln Gln Lys Met Asp Arg His Met Glu Val Cys Tyr Ile Phe  
 225 230 235 240  
 Ala Ser Glu Lys Lys Trp Ala Phe Ser Asp Glu Trp Val Ala Cys Leu  
 245 250 255  
 Gly Ser Asn Arg Ala Leu Phe Arg Glu Pro Asp Leu Val Leu Arg Leu  
 260 265 270  
 Leu Glu Thr Val Ile Asp Val Ser Thr Ala Asp Arg Ala Ile Pro Glu  
 275 280 285  
 Ser Gln Ile Arg Gln Val Ile His Leu Ile Leu Glu Cys Tyr Ala Asp  
 290 295 300  
 Leu Ser Leu Pro Gly Lys Asn Lys Val Leu Ala Gly Ile Leu Arg Ser  
 305 310 315 320  
 Trp Gly Arg Lys Gly Leu Ser Glu Lys Leu Leu Ala Tyr Val Glu Gly  
 325 330 335  
 Phe Gln Glu Asp Leu Asn Thr Thr Phe Asn Gln Leu Thr Gln Ser Ala  
 340 345 350  
 Ser Glu Gln Gly Leu Ala Lys Ala Val Ala Ser Val Ala Arg Leu Val  
 355 360 365  
 Ile Val His Pro Glu Val Thr Val Lys Lys Met Cys Ser Leu Ala Val

370					375					380				
Val Asn	Leu Gly	Thr His	Lys Phe	Leu Ala	Gln Ile	Leu Thr	Ala Phe							
385			390		395		400							
Pro Ala	Leu Arg	Phe Val	Glu Val	Gln Gly	Pro Asn	Ser Ser	Ala Thr							
		405		410			415							
Phe Met	Val Ser	Cys Leu	Lys Glu	Thr Val	Trp Met	Lys Phe	Ser Thr							
		420		425		430								
Pro Lys	Glu Glu	Lys Gln	Phe Leu	Glu Leu	Leu Asn	Cys Leu	Met Ser							
		435		440		445								
Pro Val	Lys Pro	Gln Gly	Ile Pro	Val Ala	Ala Leu	Leu Glu	Pro Asp							
		450		455		460								
Glu Val	Leu Lys	Glu Phe	Val Leu	Pro Phe	Leu Arg	Leu Asp	Val Glu							
465			470		475		480							
Glu Val	Asp Leu	Ser Leu	Arg Ile	Phe Ile	Gln Thr	Leu Glu	Ala Asn							
		485		490		495								
Ala Cys	Arg Glu	Glu Tyr	Trp Leu	Gln Thr	Cys Ser	Pro Phe	Pro Leu							
		500		505		510								
Leu Phe	Ser Leu	Cys Gln	Leu Leu	Asp Arg	Phe Ser	Lys Tyr	Trp Gln							
		515		520		525								
Leu Pro	Lys Glu	Lys Arg	Cys Leu	Ser Leu	Asp Arg	Lys Asp	Leu Ala							
		530		535		540								
Ile His	Ile Leu	Glu Leu	Leu Cys	Glu Ile	Val Ser	Ala Asn	Ala Glu							
545			550		555		560							
Thr Phe	Ser Pro	Asp Val	Trp Ile	Lys Ser	Leu Ser	Trp Leu	His Arg							
		565		570		575								
Lys Leu	Glu Gln	Leu Asp	Trp Thr	Val Gly	Leu Arg	Leu Lys	Ser Phe							
		580		585		590								
Phe Glu	Gly His	Phe Lys	Cys Glu	Val Pro	Ala Thr	Leu Phe	Glu Ile							
		595		600		605								
Cys Lys	Leu Ser	Glu Asp	Glu Trp	Thr Ser	Gln Ala	His Pro	Gly Tyr							
		610		615		620								
Gly Ala	Gly Thr	Gly Leu	Leu Ala	Trp Met	Glu Cys	Cys Cys	Val Ser							
625			630		635		640							
Ser Gly	Ile Ser	Glu Arg	Met Leu	Ser Leu	Leu Val	Val Asp	Val Gly							
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Asn Pro	Glu Glu	Val Arg	Leu Phe	Ser Lys	Gly Phe	Leu Val	Ala Leu							
		660		665		670								
Val Gln	Val Met	Pro Trp	Cys Ser	Pro Gln	Glu Trp	Gln Arg	Leu His							
		675		680		685								
Gln Leu	Thr Arg	Arg Leu	Leu Glu	Lys Gln	Leu Leu	His Val	Pro Tyr							
		690		695		700								
Ser Leu	Glu Tyr	Ile Gln	Phe Val	Pro Leu	Leu Asn	Leu Lys	Pro Phe							
705			710		715		720							
Ala Gln	Glu Leu	Gln Leu	Ser Val	Leu Phe	Leu Arg	Thr Phe	Gln Phe							
		725		730		735								
Leu Cys	Ser His	Ser Cys	Arg Asn	Trp Leu	Pro Leu	Glu Gly	Trp Asn							
		740		745		750								
His Val	Val Lys	Leu Leu	Cys Gly	Ser Leu	Thr Arg	Leu Leu	Asp Ser							
		755		760		765								
Val Arg	Ala Ile	Gln Ala	Ala Gly	Pro Trp	Val Gln	Gly Pro	Glu Gln							
		770		775		780								
Asp Leu	Thr Gln	Glu Ala	Leu Phe	Val Tyr	Thr Gln	Val Phe	Cys His							
785			790		795		800							
Ala Leu	His Ile	Met Ala	Met Leu	His Pro	Glu Val	Cys Glu	Pro Leu							

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Tyr Val Leu Ala Leu Glu Thr Leu Thr Cys Tyr Glu Thr Leu Ser Lys
      820              825              830
Thr Asn Pro Ser Val Ser Ser Leu Leu Gln Arg Ala His Glu Gln Cys
      835              840              845
Phe Leu Lys Ser Ile Ala Glu Gly Ile Gly Pro Glu Glu Arg Arg Gln
      850              855              860
Thr Leu Leu Gln Lys Met Ser Ser Phe
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<210> 989  
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 <212> DNA  
 <213> Homo sapiens

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<210> 990  
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 <212> PRT  
 <213> Homo sapiens

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Cys Pro Pro Gly Asp Thr Pro Val Asp Val Leu Ser Gly Gly Glu Arg
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Arg Arg Val Ala Leu Cys Lys Leu Leu Ile Glu Gln Pro Asp Leu Leu
35     40     45
Leu Leu Asp Glu Pro Thr Asn His Leu Asp Ala Glu Ser Val Asn Trp
50     55     60
Leu Glu Gly His Leu Lys Ser Tyr Pro Gly Ala Val Leu Ala Val Thr
65     70     75     80
His Asp Arg Tyr Phe Leu Asp His Val Ala Glu Trp Ile Cys Glu Val
85     90     95
Asp Arg Gly Gln Leu His Pro Tyr Glu Gly Asn Tyr Ser Thr Tyr Leu
100    105    110
Asp Thr Lys Arg Lys Arg Leu Gln Ile Glu Gly Lys Lys Asp Ala Lys
115    120    125
Arg Ala Lys Ile Leu Glu

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130

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 <212> DNA  
 <213> Homo sapiens

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 359

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 <211> 119  
 <212> PRT  
 <213> Homo sapiens

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 Lys Met Ser Gln Pro Ala Tyr Gln Ala Leu Glu Ser Gly Lys Asn Leu  
 20 25 30  
 Lys Ser Ala Phe Leu Pro Leu Ile Ala Gln Phe Leu Gly Val Asp Gly  
 35 40 45  
 Tyr Trp Leu Thr Thr Gly Asn Thr Glu Asp Ser Phe Arg Glu Ser Asp  
 50 55 60  
 Val Phe Ser Pro Thr Val Val Ser Ala Glu Ser Thr Asp Gln Tyr Val  
 65 70 75 80  
 Trp Ile Glu Val Val Glu Ala Asn Phe Ser Cys Gly Thr Gly Glu Ser  
 85 90 95  
 Ile Glu Phe His Phe Asp Ala Ile Asn Gly Lys Ile Pro Phe Pro Ala  
 100 105 110  
 Ser Phe Phe Lys Glu Lys Arg  
 115

<210> 993  
 <211> 450  
 <212> DNA  
 <213> Homo sapiens

<400> 993  
 ngcgcgccgg gcaccacata cgacgacggg acgttattca cctctaactgt gtacccgccg  
 60  
 tcgcgggtccg gatccgcgat gatggccgcg tggcctgaag caatgggggta ggtgcccggt  
 120

atgcgctcgct ttggcgcacg aggtttacgc cgtggggagc tcataagggg aataaccagca  
 180  
 cagggtcgga ccagttgtta cgcgcgctgc atgatctact tgcgcagga ttatatcggt  
 240  
 gagctaccca agcaacatat ctgcgtggga aagtttgatc ccgacaatat tctgcggac  
 300  
 ccgaacgaac tgtttgccac gtggtttaa gaagccgttg agaacgaagt cggcgaccct  
 360  
 actgcggtca ccgtggccac ggtggacgac aacggtcagc ccgatgcgcg agtcgtcgac  
 420  
 cttctgtacc tcaactccga cggcttccac  
 450

<210> 994

<211> 110

<212> PRT

<213> Homo sapiens

<400> 994

Met	Arg	Arg	Phe	Gly	Ala	Arg	Gly	Leu	Arg	Arg	Gly	Glu	Phe	Ile	Arg
1			5					10					15		
Glu	Ile	Pro	Ala	Gln	Gly	Arg	Thr	Ser	Cys	Tyr	Asp	Arg	Cys	Met	Ile
		20					25					30			
Tyr	Leu	Ser	Gln	Asp	Tyr	Ile	Gly	Glu	Leu	Pro	Lys	Gln	His	Ile	Ser
	35					40					45				
Leu	Gly	Lys	Phe	Asp	Pro	Asp	Asn	Ile	Pro	Ala	Asp	Pro	Asn	Glu	Leu
	50				55					60					
Phe	Ala	Thr	Trp	Phe	Lys	Glu	Ala	Val	Glu	Asn	Glu	Val	Gly	Asp	Pro
65			70					75					80		
Thr	Ala	Val	Thr	Val	Ala	Thr	Val	Asp	Asp	Asn	Gly	Gln	Pro	Asp	Ala
		85					90						95		
Arg	Val	Val	Asp	Leu	Leu	Tyr	Leu	Asn	Ser	Asp	Gly	Phe	His		
	100						105						110		

<210> 995

<211> 924

<212> DNA

<213> Homo sapiens

<400> 995

cgaggagctgg tggaccagga cgtgcagcct gcccgctacc acatcgctt tggggccgtg  
 60  
 gtggatggcg acgtggtccc cgcgcgcct gagatcctca tgcagcaggg agaattcctc  
 120  
 aactacgaca tgctcatcgg cgtcaaccag ggagaggggc tcaagtctgt ggaggactct  
 180  
 gcagagagcg aggacggtgt gtctgccagc gcttttgact tcaactgtct caactttgtg  
 240  
 gacaacctgt atggctaccc ggaaggcaag gatgtgcttc gggagaccat caagtttatg  
 300  
 tacacagact gggccgaccg ggacaatggc gaaatgcgcc gaaaaccct gctggcgctc  
 360  
 ttactgacc accaatgggt ggcaccagct gtggccactg ccaagctgca cgccgactac  
 420

cagtctcccg tctactttta caccttctac caccactgcc aggcggaggg cgggcctgag  
 480  
 tgggcagatg cggcgacacgg ggaatgaactg ccctatgtct ttggcgtgcc catgggtgggt  
 540  
 gccaccgacc tcttccccctg taactttctcc aagaatgacg tcatgtctcag tgccgtgggtc  
 600  
 atgacctact ggaccaactt gcaccaagact ggggacccca accagccggt gccgcaggat  
 660  
 accaagtcca tccacaccaa gcccaatcgc ttcgaggagg tgggtgtggag caaattcaac  
 720  
 agcaaggaga agcagtatct gcacataggg ctgaagccac gcgtgcgtga caactaccgc  
 780  
 gccacaagg tggccttctg gctggagctc gtgccccacc tgcacaacct gcacacggag  
 840  
 ctcttcacca ccaccacgcg cctgcctccc tacgccaacgc gctggccgcc tcgtcccccc  
 900  
 gctggcgccc cgggcacacg ccgg  
 924

&lt;210&gt; 996

&lt;211&gt; 308

&lt;212&gt; PRT

&lt;213&gt; Homo sapiens

&lt;400&gt; 996

Arg Glu Leu Val Asp Gln Asp Val Gln Pro Ala Arg Tyr His Ile Ala  
 1 5 10 15  
 Phe Gly Pro Val Val Asp Gly Asp Val Val Pro Asp Asp Pro Glu Ile  
 20 25 30  
 Leu Met Gln Gln Gly Glu Phe Leu Asn Tyr Asp Met Leu Ile Gly Val  
 35 40 45  
 Asn Gln Gly Glu Gly Leu Lys Phe Val Glu Asp Ser Ala Glu Ser Glu  
 50 55 60  
 Asp Gly Val Ser Ala Ser Ala Phe Asp Phe Thr Val Ser Asn Phe Val  
 65 70 75 80  
 Asp Asn Leu Tyr Gly Tyr Pro Glu Gly Lys Asp Val Leu Arg Glu Thr  
 85 90 95  
 Ile Lys Phe Met Tyr Thr Asp Trp Ala Asp Arg Asp Asn Gly Glu Met  
 100 105 110  
 Arg Arg Lys Thr Leu Leu Ala Leu Phe Thr Asp His Gln Trp Val Ala  
 115 120 125  
 Pro Ala Val Ala Thr Ala Lys Leu His Ala Asp Tyr Gln Ser Pro Val  
 130 135 140  
 Tyr Phe Tyr Thr Phe Tyr His His Cys Gln Ala Glu Gly Arg Pro Glu  
 145 150 155 160  
 Trp Ala Asp Ala Ala His Gly Asp Glu Leu Pro Tyr Val Phe Gly Val  
 165 170 175  
 Pro Met Val Gly Ala Thr Asp Leu Phe Pro Cys Asn Phe Ser Lys Asn  
 180 185 190  
 Asp Val Met Leu Ser Ala Val Val Met Thr Tyr Trp Thr Asn Phe Ala  
 195 200 205  
 Lys Thr Gly Asp Pro Asn Gln Pro Val Pro Gln Asp Thr Lys Phe Ile  
 210 215 220  
 His Thr Lys Pro Asn Arg Phe Glu Glu Val Val Trp Ser Lys Phe Asn

```

225          230          235          240
Ser Lys Glu Lys Gln Tyr Leu His Ile Gly Leu Lys Pro Arg Val Arg
          245          250          255
Asp Asn Tyr Arg Ala Asn Lys Val Ala Phe Trp Leu Glu Leu Val Pro
          260          265          270
His Leu His Asn Leu His Thr Glu Leu Phe Thr Thr Thr Thr Arg Leu
          275          280          285
Pro Pro Tyr Ala Thr Arg Trp Pro Pro Arg Pro Pro Ala Gly Ala Pro
          290          295          300
Gly Thr Arg Arg
305

```

<210> 997

<211> 320

<212> DNA

<213> Homo sapiens

<400> 997

```

aaatttaata ccatagccct ctcttggttg atccttctag gcatgagtta tggcattaaa
60
acgggcatcc atcttggtgt cgatatacgt cttaatgccg tgcctaaacg agtatcaaga
120
gccttgctct tgctcggtgc ctttgccgct attatgtacg gtctcattct acttgattct
180
acctgggttag ccttactcgg tatcgatgta cgaggtggtg ccatcgaata ttggcggaag
240
atgttcaaaa taggtattgg tactgaagag cttcgttacc ctatctttat gcaagatatg
300
tttgatttgc gcccaacgct
320

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<210> 998

<211> 106

<212> PRT

<213> Homo sapiens

<400> 998

```

Lys Phe Asn Thr Ile Ala Phe Ser Trp Leu Ile Leu Leu Gly Met Ser
1          5          10          15
Tyr Gly Ile Lys Thr Gly Ile His Leu Gly Val Asp Ile Val Leu Asn
          20          25          30
Ala Val Pro Lys Arg Val Ser Arg Ala Leu Ser Leu Phe Gly Ala Phe
          35          40          45
Ala Ala Ile Met Tyr Gly Leu Ile Leu Leu Asp Ser Thr Trp Leu Ala
          50          55          60
Leu Leu Gly Ile Asp Val Arg Gly Gly Ala Ile Glu Tyr Trp Ala Lys
65          70          75          80
Met Phe Lys Ile Gly Ile Gly Thr Glu Glu Leu Arg Tyr Pro Ile Phe
          85          90          95
Met Gln Asp Met Phe Asp Leu Arg Pro Arg
          100          105

```

<210> 999

<211> 401

&lt;212&gt; DNA

&lt;213&gt; Homo sapiens

&lt;400&gt; 999

acgcgttcag gcggttaaca atcgcgctaa gaagctgacc aaggaaaatg tcggcatggg  
 60  
 acatctgagc aagagcttca tcggtgttta tctctactca gaaggcaagt ttgtgaccag  
 120  
 caactatctc aatcgtggct acaaggacat tctgagctat gcagacgatg ctagtctttt  
 180  
 gcaaaagcct ccagcagtgg cttcagatga tctggataca ggtctcttga agagggcctt  
 240  
 ggatgagtgg gtggctgatg ctaagaacca cattctcaat actgaaaact tcttttagcg  
 300  
 gtcaaacggc ctcaacattg acagtttcta cgtcttttgg gaccaagaca tctgctggca  
 360  
 gttggcagct attctgaagc agagcatgaa tcgggaattg t  
 401

&lt;210&gt; 1000

&lt;211&gt; 115

&lt;212&gt; PRT

&lt;213&gt; Homo sapiens

&lt;400&gt; 1000

Met	Val	His	Leu	Ser	Lys	Ser	Phe	Ile	Gly	Val	Tyr	Leu	Tyr	Ser	Glu
1			5					10					15		
Gly	Lys	Phe	Val	Thr	Ser	Asn	Tyr	Leu	Asn	Arg	Gly	Tyr	Lys	Asp	Ile
		20					25					30			
Leu	Ser	Tyr	Ala	Asp	Asp	Ala	Ser	Leu	Leu	Gln	Lys	Pro	Pro	Ala	Val
		35				40					45				
Ala	Ser	Asp	Asp	Leu	Asp	Thr	Gly	Leu	Leu	Lys	Arg	Ala	Leu	Asp	Glu
	50				55			60							
Trp	Val	Ala	Asp	Ala	Lys	Asn	His	Ile	Leu	Asn	Thr	Glu	Asn	Phe	Phe
65				70				75					80		
Ser	Gly	Ser	Thr	Gly	Leu	Asn	Ile	Asp	Ser	Phe	Tyr	Val	Phe	Gly	Asp
			85				90						95		
Gln	Asp	Ile	Cys	Trp	Gln	Leu	Ala	Ala	Ile	Leu	Lys	Gln	Ser	Met	Asn
		100					105						110		
Arg	Glu	Leu													
		115													

&lt;210&gt; 1001

&lt;211&gt; 351

&lt;212&gt; DNA

&lt;213&gt; Homo sapiens

&lt;400&gt; 1001

cgcggtattg caatgcgcct ggtgccgaat gctaaacctg ctcttgattg cccggtactg  
 60  
 ttcccttatg ccctaatgc ggtgattgtt ggcttctctg ccactacctg tggttcaatt  
 120  
 atcggatatga ttgtcttccc gctgttttgg ctggcgatga tcttccggg tctgctaact  
 180

aaattttctg ctggtggtgc cgctggagtc ttgggcaacg cgtggggagg acgtaaaggg  
 240  
 gcaattattg gcggcgtagt gcacgggctg ttatcaccc ttgtaccagc gatgctaata  
 300  
 cccttactgg aaaccttcgg cttcaaaggc gtcaccttca gtgattccga t  
 351

<210> 1002

<211> 117

<212> PRT

<213> Homo sapiens

<400> 1002

Arg	Gly	Ile	Ala	Met	Arg	Leu	Val	Pro	Asn	Ala	Lys	Pro	Ala	Leu	Asp
1				5					10					15	
Cys	Pro	Val	Leu	Phe	Pro	Tyr	Ala	Pro	Asn	Ala	Val	Ile	Val	Gly	Phe
		20						25					30		
Leu	Ala	Thr	Thr	Val	Gly	Ser	Ile	Ile	Gly	Met	Ile	Val	Phe	Pro	Leu
		35				40					45				
Phe	Gly	Leu	Ala	Met	Ile	Leu	Pro	Gly	Leu	Leu	Thr	Asn	Phe	Phe	Ala
	50				55					60					
Gly	Gly	Ala	Ala	Gly	Val	Phe	Gly	Asn	Ala	Met	Gly	Gly	Arg	Lys	Gly
65				70				75					80		
Ala	Ile	Ile	Gly	Gly	Val	Val	His	Gly	Leu	Phe	Ile	Thr	Leu	Leu	Pro
			85					90					95		
Ala	Met	Leu	Ile	Pro	Leu	Leu	Glu	Thr	Phe	Gly	Phe	Lys	Gly	Val	Thr
		100					105						110		
Phe	Ser	Asp	Ser	Asp											
		115													

<210> 1003

<211> 444

<212> DNA

<213> Homo sapiens

<400> 1003

acgcgtcctc ctttagtcga tcgcgaatat gataggcgaa gcgcgctgat ggtgtgacgc  
 60  
 acgagcactg ccccatctcc taggcttagg gttatgcaga ctcccatcga cgctacctcc  
 120  
 acccccgcat ggggcacact ctccggccta aagtcggct tcgctgacgg gccacataaa  
 180  
 ctgcgcgctt tgttcgacgc cgaccctcac cgcgctgagc gctacacctt tgacgtcgcg  
 240  
 gatttgacgc tcgattttatc gaagaacctc cttaccgacg agattcgtga cgctctctcc  
 300  
 gaactggctg cgcagatgcg cgtcaccgag cgtcgtgacg cgatgtatgc cggtagacac  
 360  
 atcaacgtca ccgaggaccg cggcgtcctc cataccgcgc tgtgtcgtcc ccgcaactgac  
 420  
 gagctgcatg ttgacggtca ggat  
 444

<210> 1004

&lt;211&gt; 117

&lt;212&gt; PRT

&lt;213&gt; Homo sapiens

&lt;400&gt; 1004

```

Met Gln Thr Pro Ile Asp Ala Thr Ser Thr Pro Ala Trp Gly Thr Leu
 1             5             10             15
Ser Gly Leu Lys Ser Arg Phe Ala Asp Gly Pro His Lys Leu Arg Arg
      20             25             30
Leu Phe Asp Ala Asp Pro His Arg Ala Glu Arg Tyr Thr Phe Asp Val
      35             40             45
Ala Asp Leu His Val Asp Leu Ser Lys Asn Leu Leu Thr Asp Glu Ile
      50             55             60
Arg Asp Ala Leu Leu Glu Leu Ala Ala Gln Met Arg Val Thr Glu Arg
      65             70             75             80
Arg Asp Ala Met Tyr Ala Gly Glu His Ile Asn Val Thr Glu Asp Arg
      85             90             95
Ala Val Leu His Thr Ala Leu Cys Arg Pro Arg Thr Asp Glu Leu His
      100            105            110
Val Asp Gly Gln Asp
      115

```

&lt;210&gt; 1005

&lt;211&gt; 299

&lt;212&gt; DNA

&lt;213&gt; Homo sapiens

&lt;400&gt; 1005

```

ccatggccat tcctctggtg actgcatcca gtccgatgga tttaaacacc cccaatgtgc
60
tggtgactcc caagtttaca cctccagcca gggcttctct cctgggtttg cataccacc
120
tatctatctg ccttagccac tcgtgtctga cgagcacctc acacctccag aggctctctc
180
tttcttccca tgctgcttc tccacactc ctccctctca catgagggca acttcatcct
240
cccagttgct caggcccaa acctccatca gttttgactc ttctctcgca cactactcg
299

```

&lt;210&gt; 1006

&lt;211&gt; 99

&lt;212&gt; PRT

&lt;213&gt; Homo sapiens

&lt;400&gt; 1006

```

Met Ala Ile Pro Leu Val Thr Ala Ser Ser Pro Met Asp Leu Asn Thr
 1             5             10             15
Pro Asn Val Leu Val Thr Pro Lys Phe Thr Pro Pro Ala Arg Ala Ser
      20             25             30
Leu Leu Gly Leu His Thr His Leu Ser Ile Cys Leu Ser His Ser Cys
      35             40             45
Leu Thr Ser Thr Ser His Leu Gln Arg Leu Leu Ile Ser Ser His Ala
      50             55             60
Cys Phe Ser His Thr Pro Pro Ser His Met Arg Ala Thr Ser Ser Ser

```

```

65          70          75          80
Gln Leu Leu Arg Pro Gln Thr Ser Ile Ser Phe Asp Ser Ser Leu Ala
          85          90          95
His Tyr Ser

```

&lt;210&gt; 1007

&lt;211&gt; 389

&lt;212&gt; DNA

&lt;213&gt; Homo sapiens

&lt;400&gt; 1007

```

gccggcgca agatctaaag agctggaaag gcaaccgcaa gagagcgggg ttcttgcttg
60
atgagcgcgc ttctatggac tccatcttcg gcccgggggc tgggtgtgacg gtctctgaaa
120
tcaacgagcg caccgaggca cccagagggt tgacgttgag tgatggccga cgacagggca
180
acgcccggagc aatcgggtgac ttcttcgcat cgaaggacta caagccgtcc gcggcgagcc
240
tccgagggtcc ggcgagggat ccgaaatgga tcgacgttca acgctcattc caccagaacg
300
aagaaggccc gtacagctgg tacacctggc gcgggcaggc ttttgacacg ggcgctggat
360
ggcgtaaata cgtccatgcc gcgacaacg
389

```

&lt;210&gt; 1008

&lt;211&gt; 105

&lt;212&gt; PRT

&lt;213&gt; Homo sapiens

&lt;400&gt; 1008

```

Met Asp Ser Ile Phe Gly Pro Gly Pro Gly Val Thr Val Ser Glu Ile.
 1          5          10          15
Asn Asp Ala Thr Glu Ala Pro Arg Gly Val Thr Leu Ser Asp Gly Arg
20          25          30
Arg Gln Gly Asn Ala Gly Ala Ile Gly Asp Phe Phe Ala Ser Lys Asp
35          40          45
Tyr Lys Pro Ser Ala Ala Ser Leu Arg Gly Pro Ala Arg Asp Pro Lys
50          55          60
Trp Ile Asp Val Gln Arg Ser Phe His Glu Asn Glu Glu Gly Pro Tyr
65          70          75          80
Ser Trp Tyr Thr Trp Arg Gly Gln Ala Phe Asp Thr Gly Ala Gly Trp
85          90          95
Arg Lys Tyr Val His Ala Ala Thr Thr
100          105

```

&lt;210&gt; 1009

&lt;211&gt; 324

&lt;212&gt; DNA

&lt;213&gt; Homo sapiens

&lt;400&gt; 1009

ngccttcacg gctgntatgc ctggcctcat ccccatccct ggcacccgtg acgatagcca  
 60  
 cattccactg gtgtttcccc aggaagccca accctacctg catctcagca gagcttccac  
 120  
 ggagttggaa ccccgctccg agagggtgtg ggctcagggg ccaggggtca cacaactcc  
 180  
 agaaggagga cgtagttggt ttgcaaggct gtcctttgcc ctggttgaat aaccttcggt  
 240  
 ctgccccgag aggaacgtgg gcattaggct gcaccgcag gaagccatgt attttctgag  
 300  
 aaacttgccc catggtgcag atct  
 324

<210> 1010  
 <211> 104  
 <212> PRT  
 <213> Homo sapiens

<400> 1010  
 Met Gly Gln Val Ser Gln Lys Ile His Gly Phe Leu Arg Val Gln Pro  
 1 5 10 15  
 Asn Ala His Val Pro Leu Gly Ala Asp Arg Arg Leu Phe Asn Gln Gly  
 20 25 30  
 Lys Gly Gln Pro Cys Lys Pro Thr Thr Ser Ser Phe Trp Ser Leu Cys  
 35 40 45  
 Asp Pro Trp Pro Leu Ser Pro His Pro Leu Gly Ala Gly Phe Gln Leu  
 50 55 60  
 Arg Gly Ser Ser Ala Glu Met Gln Val Gly Leu Ala Phe Leu Gly Lys  
 65 70 75 80  
 His Gln Trp Asn Val Ala Ile Val Thr Gly Ala Arg Asp Gly Asp Glu  
 85 90 95  
 Ala Arg His Xaa Ser His Glu Gly  
 100

<210> 1011  
 <211> 330  
 <212> DNA  
 <213> Homo sapiens

<400> 1011  
 ctgcagaaaa ggaggggggt cccatgccaa ggcagaactg tctgggacag acgctgccc  
 60  
 gatccctgag gctgcctgca ctctggacca cgagctctga gacgagcagg ttgaggggcg  
 120  
 gtgggcagca gctcggaggc tccgcgaggt gcaggagacg caggcatggc cggtgagctg  
 180  
 actcctgagg aggaggccca gtacaaaaag gctttctccg cggttgacac gcatggaaac  
 240  
 ggaccatcat atgccagga gctggggcgc gcgctgaagg ccacggggca gaacctctcg  
 300  
 gaggcccagc taaagaaact catctccgag  
 330

<210> 1012

<211> 55  
 <212> PRT  
 <213> Homo sapiens

<400> 1012  
 Met Ala Gly Glu Leu Thr Pro Glu Glu Glu Ala Gln Tyr Lys Lys Ala  
 1 5 10 15  
 Phe Ser Ala Val Asp Thr Asp Gly Asn Gly Thr Ile Asn Ala Gln Glu  
 20 25 30  
 Leu Gly Ala Ala Leu Lys Ala Thr Gly Lys Asn Leu Ser Glu Ala Gln  
 35 40 45  
 Leu Lys Lys Leu Ile Ser Glu  
 50 55

<210> 1013  
 <211> 432  
 <212> DNA  
 <213> Homo sapiens

<400> 1013  
 naattgcaca tcgtggtggc gtcgctgcgt gcggcactga caatgtgact ggcgcatctcg  
 60  
 tggcggcgctc tcctcgtcgc cgggagcggc gaggaaggat taacgatgac cagcgacgctc  
 120  
 cccggggattg gctcgaacgc cgccactttg gcgcgttccc aggctcgcag tgacaaggtc  
 180  
 gagggctgatt tggcgggtcca tcccagacaag tggcgcatctc tgggggggga ccgtcctact  
 240  
 ggcagcctgc acatcggtca ctacttcggg tcgctggcga atcgggtacg cgtgcagaac  
 300  
 aagggcattg agtctttcct tgctcgtcgt gactaccagg ttatctatga ccgcgggggg  
 360  
 ggtggtgacc tgcaggccaa tgttatgtcg aatgtcgccg attacctggc aatcggcatt  
 420  
 gacccaacgc gt  
 432

<210> 1014  
 <211> 109  
 <212> PRT  
 <213> Homo sapiens

<400> 1014  
 Met Thr Ser Asp Val Pro Gly Ile Gly Ser Asn Ala Ala Thr Leu Ala  
 1 5 10 15  
 Arg Ser Gln Ala Arg Ser Asp Lys Val Glu Ala Asp Leu Ala Val His  
 20 25 30  
 Pro Asp Lys Trp Arg Ile Leu Gly Gly Asp Arg Pro Thr Gly Ser Leu  
 35 40 45  
 His Ile Gly His Tyr Phe Gly Ser Leu Ala Asn Arg Val Arg Val Gln  
 50 55 60  
 Asn Lys Gly Ile Glu Ser Phe Leu Val Val Ala Asp Tyr Gln Val Ile  
 65 70 75 80  
 Tyr Asp Arg Gly Gly Gly Asp Leu Gln Ala Asn Val Met Ser Asn

```

      85              90              95
Val Ala Asp Tyr Leu Ala Ile Gly Ile Asp Pro Thr Arg
      100              105

<210> 1015
<211> 467
<212> DNA
<213> Homo sapiens

<400> 1015
nngaattcga tggctgtgaa aggtcgagct cttaagtgtt ttcatatccc ctgtgtggtt
60
gaaaacttcc cgatgaaagc gcgcacggtt gaagagctga aagaattgga aagagtttta
120
cagcaaaaga agattgaagc agagtgtctt aaactacgga aggaaattgt agaggctcag
180
tctggagtta agttgattaa acacggtcat gaagaggatg atgaagaaga ggaagaggaa
240
gacaagacag taaaatatag caatttgccc aattacctgc ttggtagtct gactactgat
300
tttggggtag atacctcttt attgtcaagc caattggagc ttcattccag agaagagaaa
360
atcaacaaaa ttatattatt gaaagatatc atttacaagg taaaaactgt tttcaataat
420
gagtttgacg ctgcatataa acaaaaagag tttgaaattg caccgct
467

<210> 1016
<211> 155
<212> PRT
<213> Homo sapiens

<400> 1016
Xaa Asn Ser Met Ala Val Lys Gly Arg Ala Leu Lys Cys Phe His Ile
1          5          10          15
Pro Cys Val Val Glu Asn Phe Pro Met Lys Ala Arg Thr Val Glu Glu
20          25          30
Leu Lys Glu Leu Glu Arg Val Leu Gln Gln Lys Lys Ile Glu Ala Glu
35          40          45
Cys Leu Lys Leu Arg Lys Glu Ile Val Glu Ala Gln Ser Gly Val Lys
50          55          60
Leu Ile Lys Gln Arg His Glu Glu Asp Asp Glu Glu Glu Glu Glu
65          70          75          80
Asp Lys Thr Val Lys Tyr Ser Asn Leu Pro Asn Tyr Leu Leu Gly Ser
85          90          95
Leu Ser Thr Asp Phe Gly Val Asp Thr Ser Leu Leu Ser Ser Gln Leu
100         105         110
Glu Leu His Ser Arg Glu Glu Lys Ile Asn Gln Ile Ile Leu Leu Lys
115         120         125
Asp Ile Ile Tyr Lys Val Lys Thr Val Phe Asn Asn Glu Phe Asp Ala
130         135         140
Ala Tyr Lys Gln Lys Glu Phe Glu Ile Ala Arg
145         150         155

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<210> 1017  
 <211> 335  
 <212> DNA  
 <213> Homo sapiens

<400> 1017  
 acgctgggct gggtgggtat gtggaacat gtgcgcgcta atgagaagga tgcgaagggg  
 60  
 aacattaaag tgggtcgccc cggtactttt gcggagggtca tggatttcta tgcgcattat  
 120  
 ctgaaggggtg cgggttaccgc tttccgtccg aattttattg tgcaggataa tacggggccgt  
 180  
 tggcgtgttc agtcgtcgtg gccgcagccg aatgcactg ttacttttgc gggacccgcg  
 240  
 ggcattgtcc gctacggtac gacgttggcg gccgcacgc atgggaatgg tcaggctatt  
 300  
 ccgcaggcgg atgcacagtc tcttaaccgc gagaa  
 335

<210> 1018  
 <211> 105  
 <212> PRT  
 <213> Homo sapiens

<400> 1018  
 Met Trp Asn His Val Arg Ala Asn Glu Lys Asp Ala Lys Gly Asn Ile  
 1 5 10 15  
 Lys Val Gly Arg Pro Gly Tyr Phe Ala Glu Val Met Asp Phe Tyr Ala  
 20 25 30  
 His Tyr Leu Lys Gly Ala Val Thr Arg Phe Arg Pro Asn Phe Ile Val  
 35 40 45  
 Gln Asp Asn Thr Gly Arg Trp Arg Val Gln Ser Ser Trp Pro Gln Pro  
 50 55 60  
 Asn Arg Thr Val Thr Phe Ala Gly Pro Arg Gly Ile Val Arg Tyr Gly  
 65 70 75 80  
 Thr Thr Leu Ala Ala Arg Thr His Gly Asn Gly Gln Ala Ile Pro Gln  
 85 90 95  
 Ala Asp Ala Gln Ser Leu Asn Arg Glu  
 100 105

<210> 1019  
 <211> 454  
 <212> DNA  
 <213> Homo sapiens

<400> 1019  
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 ctctggagcc tctctctcaa tggcgttgcc catgggtgctt ggcttgggtg atgaggcggg  
 120  
 tgaagggcgt ggggccagggt ggtgcgggat gaagtcagcc tcgttgaaga gctcgtgggt  
 180  
 ggaggagccg ctgcctgagc cttcagggcc cagtgtgccc aggggccacc gacagagtgg  
 240

cagagagcag gtgacttcct ggcactgcgg agcgaggacc cggagaagta cttcctcaat  
 300  
 ggtggctgga ccatccagtg gaacggggac taccaggtgg cagggaccac cttcacatac  
 360  
 gcacgcaggg gcaactggga gaacctcacg tccccgggtc ccaccaagga gcctgtctgg  
 420  
 atccagctgc tgttcaggga gagcaacctt gggg  
 454

<210> 1020

<211> 125

<212> PRT

<213> Homo sapiens

<400> 1020

Met	Ala	Leu	Pro	Met	Val	Pro	Gly	Leu	Gly	Asp	Glu	Ala	Gly	Glu	Gly
1				5				10					15		
Arg	Gly	Ala	Arg	Trp	Cys	Gly	Met	Lys	Ser	Ala	Ser	Leu	Lys	Ser	Ser
			20					25				30			
Trp	Leu	Glu	Glu	Pro	Leu	Pro	Glu	Pro	Ser	Gly	Pro	Ser	Val	Pro	Arg
		35					40				45				
Gly	His	Arg	Gln	Ser	Gly	Arg	Glu	Gln	Val	Thr	Ser	Trp	His	Cys	Gly
50					55					60					
Ala	Arg	Thr	Arg	Arg	Ser	Thr	Ser	Ser	Met	Val	Ala	Gly	Pro	Ser	Ser
65					70					75				80	
Gly	Thr	Gly	Thr	Thr	Arg	Trp	Gln	Gly	Pro	Pro	Ser	His	Thr	His	Ala
			85					90						95	
Gly	Ala	Thr	Gly	Arg	Thr	Ser	Arg	Pro	Arg	Val	Pro	Pro	Arg	Ser	Leu
			100					105					110		
Ser	Gly	Ser	Ser	Cys	Cys	Ser	Arg	Arg	Ala	Thr	Leu	Gly			
			115				120					125			

<210> 1021

<211> 366

<212> DNA

<213> Homo sapiens

<400> 1021

cagctgtgtc gtgacctcct gtagaccaga gagaggtaga gcatgaaaaa tgctcattga  
 60  
 gccgagatta tctgacagga ccaaagcata taaagttgac tgaagcagga gcaaacacgc  
 120  
 tggttgaggg tcaagtgtct gggcagcagc aacaacaaac caaaaaaaag ccctttgaac  
 180  
 tcccttaaat ttgccccaaag gttctggtag agaacaagtc acatgcctaa gaaggtcttt  
 240  
 taaagggcac tcttgcagtt tcagcatttg gtccggggaa ttgcacaagg ctctgcttaa  
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 atgcagagct ctttttagca tcttcatatt caaggcggaa aaactgagct tggcagaggaa  
 360  
 ccctgt  
 366

<210> 1022

<211> 109  
 <212> PRT  
 <213> Homo sapiens

<400> 1022  
 Met Lys Met Leu Glu Arg Ala Leu His Leu Ser Arg Ala Leu Cys Asn  
 1 5 10 15  
 Ser Pro Asp Gln Met Leu Lys Leu Gln Glu Cys Pro Leu Lys Asp Leu  
 20 25 30  
 Leu Arg His Val Thr Cys Ser Leu Pro Glu Pro Leu Gly Asn Ile Lys  
 35 40 45  
 Gly Val Gln Arg Ala Phe Phe Trp Phe Val Val Ala Ala Ala Pro Ala  
 50 55 60  
 Leu Asp Pro Gln Pro Ala Cys Leu Leu Leu Leu Gln Ser Thr Leu Tyr  
 65 70 75 80  
 Ala Leu Val Leu Ser Asp Asn Leu Gly Ser Met Ser Ile Phe His Ala  
 85 90 95  
 Leu Pro Leu Ser Gly Leu Gln Glu Val Thr Gln Leu  
 100 105

<210> 1023  
 <211> 426  
 <212> DNA  
 <213> Homo sapiens

<400> 1023  
 gccgggcttc gggctctctga agcgatcaac ctggccgact cggatgcaga tctggacggc  
 60  
 ggcatacctga ccatacagca gaccaagttt ggcaagtccc gcattggtgcc gctacacccc  
 120  
 agcgtgatcg gtccgatggc agcctaccgg gccttgcgcc gccagtacgt gcctgcgaag  
 180  
 ccgcagatga cattcttcgt gggctcgcgt ggctgtgacc ggggtgaacc gctgggagat  
 240  
 aggcagggtc atcgagtgtt ctgtcagctg cgcgagcaat tgggttgat cgatcgcggc  
 300  
 ggccatggcc gaccgcgggt gcatgacctg cgccatagct tcgccgtgag acggatgatc  
 360  
 ctgtggcacc agcagggagc gaaccttgac caacgaatgc tggccctgtc cacgtacatg  
 420  
 ggccac  
 426

<210> 1024  
 <211> 142  
 <212> PRT  
 <213> Homo sapiens

<400> 1024  
 Ala Gly Leu Arg Val Ser Glu Ala Ile Asn Leu Ala Asp Ser Asp Ala  
 1 5 10 15  
 Asp Leu Asp Gly Gly Ile Leu Thr Ile Gln Gln Thr Lys Phe Gly Lys  
 20 25 30  
 Ser Arg Met Val Pro Leu His Pro Ser Val Ile Gly Pro Met Ala Ala

```

          35              40              45
Tyr Arg Ala Leu Arg Arg Gln Tyr Val Pro Ala Lys Pro Gln Met Thr
   50              55              60
Phe Phe Val Gly Ser Arg Gly Val His Arg Gly Glu Pro Leu Gly Asp
65              70              75              80
Arg Gln Val His Arg Val Phe Cys Gln Leu Arg Glu Gln Leu Gly Trp
   85              90              95
Ile Asp Arg Gly Gly His Gly Arg Pro Arg Val His Asp Leu Arg His
   100              105              110
Ser Phe Ala Val Arg Arg Met Ile Leu Trp His Gln Gln Gly Ala Asn
   115              120              125
Leu Asp Gln Arg Met Leu Ala Leu Ser Thr Tyr Met Gly His
   130              135              140

```

&lt;210&gt; 1025

&lt;211&gt; 518

&lt;212&gt; DNA

&lt;213&gt; Homo sapiens

&lt;400&gt; 1025

```

nagcgctggt gcgcgccaggt ggcgccgcgg tccctttgct cctgcgcaa gccggagggg
60
tgccccaag gctaccacta gctccagcga agggctgcgc ctgagagcgc ggtagcctcg
120
gatagcggcg ctgcgtacgc gatgatggat gagccgtggt gggaaggcgc cgctgcctcg
180
gagctccact gcacctcgcg cgagaaggaa ctgaagctgc ccaccttcgc agccactcc
240
ccactctga agagccgcgc gttcttcgtg gacatcctga cctcgtctgag cagccactgc
300
cagctctgcc ctgcagcccg gcacctggcc gtctacctgc tggaccactt catggatcgc
360
tacaacgtca ccacctcaa gcagctctac accgtggcgc tctcctgcct cctgcttgca
420
agtaagtctg aggatcgga agaccacgtc cccaagttgg agcaaataaa cagcacgagg
480
atcctgagca gccagaactt caccctcacc aagaagga
518

```

&lt;210&gt; 1026

&lt;211&gt; 125

&lt;212&gt; PRT

&lt;213&gt; Homo sapiens

&lt;400&gt; 1026

```

Met Met Asp Glu Pro Trp Trp Glu Gly Arg Val Ala Ser Asp Val His
   1              5              10              15
Cys Thr Leu Arg Glu Lys Glu Leu Lys Leu Pro Thr Phe Arg Ala His
   20              25              30
Ser Pro Leu Leu Lys Ser Arg Arg Phe Phe Val Asp Ile Leu Thr Leu
   35              40              45
Leu Ser Ser His Cys Gln Leu Cys Pro Ala Ala Arg His Leu Ala Val
   50              55              60
Tyr Leu Leu Asp His Phe Met Asp Arg Tyr Asn Val Thr Thr Ser Lys

```

```

65          70          75          80
Gln Leu Tyr Thr Val Ala Val Ser Cys Leu Leu Ala Ser Lys Phe
      85          90          95
Glu Asp Arg Glu Asp His Val Pro Lys Leu Glu Gln Ile Asn Ser Thr
      100        105        110
Arg Ile Leu Ser Ser Gln Asn Phe Thr Leu Thr Lys Lys
      115        120        125

```

&lt;210&gt; 1027

&lt;211&gt; 465

&lt;212&gt; DNA

&lt;213&gt; Homo sapiens

&lt;400&gt; 1027

```

ggcccaaaag tcattcaaga aaagctgaca caggagctga aggaccacaa cgccaccagg
60
atcctgcagc agctgccgct gctcaaggcc atgcgggaaa agccagccgg aggcattccct
120
gtgtgtggga gcctgggtgaa caccngtctc gaagcacatc atnctggctg gaaggtcatc
180
acagctaaca tcctccagct gcagggtgaag ccctcggccca atgaccagga gctgctagtc
240
aagatcccc tggacatggg ggctggattc aacacgcccc tggtaagac catcgtggag
300
ttccacatga cgactgaggc ccaagccacc atccgcatgg acaccagtgc aagtggcccc
360
acccgctctg tcctcagtgat ctgtgccacc agccatggga gcctgcgcat ccaactgctg
420
cataagctct ccttcaagct gaacgcctca gctaagcagg tcatg
465

```

&lt;210&gt; 1028

&lt;211&gt; 155

&lt;212&gt; PRT

&lt;213&gt; Homo sapiens

&lt;400&gt; 1028

```

Gly Pro Lys Val Ile Lys Glu Lys Leu Thr Gln Glu Leu Lys Asp His
1          5          10          15
Asn Ala Thr Ser Ile Leu Gln Gln Leu Pro Leu Leu Lys Ala Met Arg
      20        25        30
Glu Lys Pro Ala Gly Gly Ile Pro Val Leu Gly Ser Leu Val Asn Thr
      35        40        45
Xaa Pro Glu Ala His His Xaa Trp Leu Lys Val Ile Thr Ala Asn Ile
      50        55        60
Leu Gln Leu Gln Val Lys Pro Ser Ala Asn Asp Gln Glu Leu Leu Val
      65        70        75        80
Lys Ile Pro Leu Asp Met Val Ala Gly Phe Asn Thr Pro Leu Val Lys
      85        90        95
Thr Ile Val Glu Phe His Met Thr Thr Glu Ala Gln Ala Thr Ile Arg
      100       105       110
Met Asp Thr Ser Ala Ser Gly Pro Thr Arg Leu Val Leu Ser Asp Cys
      115       120       125
Ala Thr Ser His Gly Ser Leu Arg Ile Gln Leu Leu His Lys Leu Ser

```

```

      130              135              140
Phe Lys Leu Asn Ala Ser Ala Lys Gln Val Met
145              150              155

<210> 1029
<211> 479
<212> DNA
<213> Homo sapiens

<400> 1029
acgcgtgaag ggaaactgtc ctcacagatg agtgtgaggg ttcaaaaaga tactgcctgc
60
caagcactgg ccacaaatgc ctggcagaac aactgctcat aagtgtgtag ttgttgttat
120
tattactaac caagtgagga aaattatccc tagcagggtcc agatgaccgt gtgcatgaat
180
cacagggaga ccctaaagga ttctctcctg taaagctctt tccccacctt ttgtctactg
240
cctgaaattg ctttagcagg aaacagaatc tctcatgcc aagtgaagca taaagttaa
300
aatgtaaatg ctctaggaaa aggcaactca tctcttaaat tctctcaag gttcaaatcc
360
tttccaaaga ggaggctttt gtataagtca gaaggcccag tcctgaaggt tcatggaaaa
420
ggtcattgaca caccgagggg gtgtcaaagg gagactggga aactgaagat gaagctagc
479

<210> 1030
<211> 110
<212> PRT
<213> Homo sapiens

<400> 1030
Met Ser Cys Leu Phe Leu Glu His Leu His Phe Lys Leu Tyr Ala His
1          5          10          15
Leu Trp His Glu Arg Phe Cys Phe Leu Leu Lys Gln Phe Gln Ala Val
20          25          30
Ala Asn Arg Trp Gly Lys Ser Phe Thr Gly Gly Asn Pro Leu Gly Ser
35          40          45
Pro Cys Asp Ser Cys Thr Arg Ser Ser Gly Pro Ala Arg Asp Asn Phe
50          55          60
Pro His Leu Val Ser Asn Asn Asn Asn Asn Tyr Thr Leu Met Ser Ser
65          70          75          80
Cys Ser Ala Arg His Leu Trp Pro Val Leu Gly Arg Gln Tyr Leu Phe
85          90          95
Glu Pro Ser His Ser Ser Val Arg Thr Val Ser Leu His Ala
100          105          110

<210> 1031
<211> 322
<212> DNA
<213> Homo sapiens

<400> 1031

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nacgcgtttt atgtcagcgt tgaattggaa gacggcaagt ctatcgccat gctgccccag  
 60  
 gcagatggct ggtttgaagt ggaggtgaag tgccccggcg gcactacta cegctataac  
 120  
 atcgacggcg aaaccgatgt acccgacccg gcattccagg cgcaagccaa cgatgtgcat  
 180  
 ggggtggagcg tcgtcgtcga cccgctcgcc tatcaatggc gacaccctaa ctggcaaggc  
 240  
 cgccccggcg atgaggcggt gatttacgag ctgcacgttg cgtactctgg cgggtacggc  
 300  
 gctgttgaac agcaactgcc gc  
 322

<210> 1032

<211> 107

<212> PRT

<213> Homo sapiens

<400> 1032

Xaa	Ala	Phe	Tyr	Val	Ser	Val	Glu	Leu	Glu	Asp	Gly	Lys	Ser	Ile	Ala
1			5					10					15		
Met	Leu	Pro	Gln	Ala	Asp	Gly	Trp	Phe	Glu	Val	Glu	Val	Lys	Cys	Pro
			20				25					30			
Ala	Gly	Thr	His	Tyr	Arg	Tyr	Asn	Ile	Asp	Gly	Glu	Thr	Asp	Val	Pro
		35				40					45				
Asp	Pro	Ala	Ser	Arg	Ala	Gln	Ala	Asn	Asp	Val	His	Gly	Trp	Ser	Val
	50				55					60					
Val	Val	Asp	Pro	Leu	Ala	Tyr	Gln	Trp	Arg	His	Pro	Asn	Trp	Gln	Gly
	65			70				75						80	
Arg	Pro	Trp	His	Glu	Ala	Val	Ile	Tyr	Glu	Leu	His	Val	Gly	Val	Leu
			85					90					95		
Gly	Gly	Tyr	Ala	Ala	Val	Glu	Gln	Gln	Leu	Pro					
			100					105							

<210> 1033

<211> 579

<212> DNA

<213> Homo sapiens

<400> 1033

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 acagcgccaa ggggtgtgag gagggccctt cgcggggtcac ggatagggtc aagggtggcac  
 120  
 aattcacatt caaatccatc acttttcaca taattgctgt taatatgaac gtcatgagtc  
 180  
 gttgttgctc gcggttgcca gtgggactcc ccatacacgg cagcgagaca tggaggaacc  
 240  
 atgggactaa ggatcgttgt cgccgctgat ccggcggcag tcgagtacaa ggatgtcgtc  
 300  
 aaggctgacc tggaagcgga ttcgcgagtc gatgacgtta tcgacgtcgg cgttcaggct  
 360  
 ggtgacgaca ccctctacc cgcgcatcgc atcaaggagg ctcacgtcat caaggacgga  
 420

aaagccgac gaggaatctt tttctgcggc accgggatgg gcattggccat cacggccaac  
 480  
 aaggtgccag gcattcgcgc ctgcaccgcc cagcactcct tctccgtaga gcggctcacc  
 540  
 atgtccaacg acgcccacgt gctatgcctc ggccaacgc  
 579

<210> 1034  
 <211> 113  
 <212> PRT  
 <213> Homo sapiens

<400> 1034  
 Met Gly Leu Arg Ile Val Val Ala Ala Asp Pro Ala Ala Val Glu Tyr  
 1 5 10 15  
 Lys Asp Val Val Lys Ala Asp Leu Glu Ala Asp Ser Arg Val Asp Asp  
 20 25 30  
 Val Ile Asp Val Gly Val Gln Ala Gly Asp Asp Thr Leu Tyr Pro Arg  
 35 40 45  
 Ile Gly Ile Lys Gly Ala His Val Ile Lys Asp Gly Lys Ala Asp Arg  
 50 55 60  
 Gly Ile Phe Phe Cys Gly Thr Gly Met Gly Met Ala Ile Thr Ala Asn  
 65 70 75 80  
 Lys Val Pro Gly Ile Arg Ala Cys Thr Ala His Asp Ser Phe Ser Val  
 85 90 95  
 Glu Arg Leu Ile Met Ser Asn Asp Ala His Val Leu Cys Leu Gly Gln  
 100 105 110  
 Arg

<210> 1035  
 <211> 363  
 <212> DNA  
 <213> Homo sapiens

<400> 1035  
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 60  
 gtgtgtatan gaattgtgtgt atgtgtantg gaattgtgtgt gtgtantgga agctgtgtgc  
 120  
 atatgtnaat gtctgtgtgc atgtacgnga atgtgcgcgt gtatggaatg tatctgtgta  
 180  
 tgtgtatgga ccgtttgtgt gattatgcaa tatgtccgtg tgtgcgtatg gagtgtctca  
 240  
 gtatggcatg tgtgtgtgta tctactgtgc gtctctgtgt gtgtantgac atgcataatgt  
 300  
 atagaaagcg tctgcgctgt gtgcatgtgt gtcagtatcg aacgagtcgg agatgtggta  
 360  
 atn  
 363

<210> 1036  
 <211> 121  
 <212> PRT

&lt;213&gt; Homo sapiens

&lt;400&gt; 1036

Xaa Ala Cys Asn Val Cys Val Cys Met Xaa Pro Cys Leu Cys Val Cys  
 1 5 10 15  
 Met Xaa Ile Cys Val Cys Ile Xaa Met Cys Val Cys Val Xaa Glu Cys  
 20 25 30  
 Val Cys Val Xaa Glu Ala Val Cys Ile Cys Xaa Cys Leu Cys Ala Cys  
 35 40 45  
 Thr Xaa Met Cys Ala Cys Met Glu Cys Ile Cys Val Cys Val Trp Thr  
 50 55 60  
 Val Cys Val Ile Met Gln Tyr Val Arg Val Cys Val Trp Ser Val Ser  
 65 70 75 80  
 Val Trp His Val Cys Val Tyr Leu Leu Cys Val Ser Val Cys Val Xaa  
 85 90 95  
 Thr Cys Ile Cys Ile Glu Ser Val Cys Ala Val Cys Met Cys Val Ser  
 100 105 110  
 Ile Glu Arg Val Gly Asp Val Val Xaa  
 115 120

&lt;210&gt; 1037

&lt;211&gt; 5832

&lt;212&gt; DNA

&lt;213&gt; Homo sapiens

&lt;400&gt; 1037

cettctcctg ggggccagat gcatgctgga atcagtagct ttcagcagag taactcaagt  
 60  
 gggacttacg gtccacagat gagccagtat ggaccacaag gtaactactc cagaccccca  
 120  
 gcgtatagtg ggggtgccag tgcaagctac agcgggcccag ggcccgggat ggggtatcagt  
 180  
 gccacaacac agatgcatgg acaagggccca agccagccat gtgggtgctgt gccctctggga  
 240  
 cgaatgccat cagctgggat gcagaacaga ccatttctctg gaaatatgag cagcatgacc  
 300  
 cccagttctc ctggcatgtc tcagcaggga gggccaggaa tggggccgcc aatgccaact  
 360  
 gtgaaccgta aggcacagga ggcagcccgca gcagtgtatg aggctgctgc gaactcagca  
 420  
 caaagcagcg aaggcagttt ccccgcatg aaccagagtg gacttatggc ttccagctct  
 480  
 ccctacagcc agcccatgaa caacagctct agcctgatga acacgcagcg gccgcctac  
 540  
 agcatggcgc ccgcatgggt gaacagctcg gcagcatctg tgggtcttgc agatatgatg  
 600  
 tctcttggtg aatccaaact gccctgcct ctcaaagcag acggcaaaga agaaggcact  
 660  
 ccacagcccc agagcaagtc aaaggatagc tacagctctc aggggtatttc tcagccccc  
 720  
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 780  
 ttctcatggag atgaaagtga tagcattagc agcccagggt gcccaaagac tccatcaagc  
 840

cctaagtcca gctcctccac cactactggg gagaagatca cgaagtgta cgagctgggg  
900  
aatgagccag agagaaagct ctgggtcgac cgatacctca ctttcatgga agagagaggc  
960  
tctcctgtct caagtctgcc tgccgtgggc aagaagcccc tggacctgtt ccgactctac  
1020  
gtctgctga aagagatcgg ggggttgccc cagggttaata aaaacaagaa gtggcgtgag  
1080  
ctggcaacca acctaaacgt tggcacctca agcagtgcag cgagctccct gaaaaagcag  
1140  
tatattcagt acctgtttgc ctttgagtgc aagatcgaa gtggggagga gcccccccg  
1200  
gaagtcttca gcaccgggga caccaaaaag cagcccaagc tccagccgc atctcctgct  
1260  
aactcgggag ccttgcaagg cccacagacc cccagtgcaa ctggcagcaa ttccatggca  
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gagggtccag gtgacctgaa gccacctacc ccagcctcca cccctcacgg ccagatgact  
1380  
ccaatgcaag gtggaagaag cagtacaate agtgtgcagc acccattctc agatgtgagt  
1440  
gattcatcct tcccgaacg gaactccatg actccaaacg cccctacca gcagggcatg  
1500  
agcatgcccc atgtgatggg caggatgccc tatgagccca acaaggaccc ctttggggga  
1560  
atgagaaaaa tgccgtgaag cagcgagccc tttatgacgc aaggacagat gccaacagc  
1620  
agcatgcagg acatgtacaa ccaaagtccc tccggagcaa tgtctaacct gggcatgggg  
1680  
cagcgccagc agtttccta tggagccagt tacgaccgaa ggcataaacc ttatgggcag  
1740  
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1800  
ctgtaccacc agcagccgaa ttacaaacgc catatggacg gcattgacgg gccccagcc  
1860  
aagcgccagc agggcgacat gtacaacatg cagtacagca gccagcagca ggagatgtac  
1920  
aaccagtatg gaggtccta ctccggcccc gaccgcaggg ccatccaggg ccagtatccc  
1980  
tatccctaca gcaggggag gatgcagggc cgggggcaga tccagacaca cggaatccc  
2040  
cttcagatga tgggcggccc gctgcagtcg tcctccagtg aggggcctca gcagaatatg  
2100  
tgggcagcac gcaatgatat gccttatccc taccagaaca ggcaggggccc tggcggccct  
2160  
acacaggcgc ccccttacc aggcataaac cgcacagacg atatgatggt acccgatcag  
2220  
aggataaate atgagagcca gtggccttct cagctcagcc agcgtcagcc ttatatgtcg  
2280  
tcctcagcct ccattgcagc catcacagc ccaccacagc cgtcctacca gacgccaccg  
2340  
tcactgccaa atcacatctc cagggcgccc agcccagcgt ccttcacagc ctccctggag  
2400  
aaccgcatgt ctccaagcaa gtctcctttt ctgcgctcta tgaagatgca gaaggctcatg  
2460

cccacgggtcc ccacatccca ggtcaccggg ccaccacccc aaccaccccc aatcagaagg  
2520  
gagatcacct ttctctctgg ctcagtagaa gcatcacaac cagtcctttaa acaaaggcga  
2580  
aagattacct ccaaagatat cgttactcct gaggcgtggc gtgtgatgat gtcccttaaa  
2640  
tcagggtcctt ttggtgagag tacgtgggct ttggacacta ttaatatctt tctgtatgat  
2700  
gacagcactg ttgtactttt caatctctcc cagttgtctg gattttctga acttttagtc  
2760  
gagtacttta gaaaatgcct gattgacatt ttggaattc ttatggaata tgaagtggga  
2820  
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2880  
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<210> 1038

<211> 1485

<212> PRT

<213> Homo sapiens

<400> 1038

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Gln	Gly	Asn	Tyr	Ser	Arg	Pro	Pro	Ala	Tyr	Ser	Gly	Val	Pro	Ser	Ala
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Ser	Tyr	Ser	Gly	Pro	Gly	Pro	Gly	Met	Gly	Ile	Ser	Ala	Asn	Asn	Gln
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Met	His	Gly	Gln	Gly	Pro	Ser	Gln	Pro	Cys	Gly	Ala	Val	Pro	Leu	Gly
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Arg	Met	Pro	Ser	Ala	Gly	Met	Gln	Asn	Arg	Pro	Phe	Pro	Gly	Asn	Met
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Ser	Ser	Met	Thr	Pro	Ser	Ser	Pro	Gly	Met	Ser	Gln	Gln	Gly	Gly	Pro
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Gly	Ser	Phe	Pro	Gly	Met	Asn	Gln	Ser	Gly	Leu	Met	Ala	Ser	Ser	Ser
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Ser	Val	Gly	Leu	Ala	Asp	Met	Met	Ser	Pro	Gly	Glu	Ser	Lys	Leu	Pro
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Leu	Pro	Leu	Lys	Ala	Asp	Gly	Lys	Glu	Glu	Gly	Thr	Pro	Gln	Pro	Glu
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Ser	Ile	Ser	Ser	Phe	His	Gly	Asp	Glu	Ser	Asp	Ser	Ile	Ser	Ser	Pro
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 370 375 380  
 Leu Phe Ala Phe Glu Cys Lys Ile Glu Arg Gly Glu Glu Pro Pro Pro  
 385 390 395 400  
 Glu Val Phe Ser Thr Gly Asp Thr Lys Lys Gln Pro Lys Leu Gln Pro  
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 Pro Ser Pro Ala Asn Ser Gly Ser Leu Gln Gly Pro Gln Thr Pro Gln  
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 Ser Thr Gly Ser Asn Ser Met Ala Glu Val Pro Gly Asp Leu Lys Pro  
 435 440 445  
 Pro Thr Pro Ala Ser Thr Pro His Gly Gln Met Thr Pro Met Gln Gly  
 450 455 460  
 Gly Arg Ser Ser Thr Ile Ser Val His Asp Pro Phe Ser Asp Val Ser  
 465 470 475 480  
 Asp Ser Ser Phe Pro Lys Arg Asn Ser Met Thr Pro Asn Ala Pro Tyr  
 485 490 495  
 Gln Gln Gly Met Ser Met Pro Asp Val Met Gly Arg Met Pro Tyr Glu  
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 Pro Asn Lys Asp Pro Phe Gly Gly Met Arg Lys Val Pro Gly Ser Ser  
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 Met Tyr Asn Gln Ser Pro Ser Gly Ala Met Ser Asn Leu Gly Met Gly  
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 Thr Gln Ala Pro Pro Tyr Pro Gly Met Asn Arg Thr Asp Asp Met Met  
 725 730 735  
 Val Pro Asp Gln Arg Ile Asn His Glu Ser Gln Trp Pro Ser His Val  
 740 745 750  
 Ser Gln Arg Gln Pro Tyr Met Ser Ser Ser Ala Ser Met Gln Pro Ile

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Thr	Arg	Pro	Pro	Gln	Pro	Ser	Tyr	Gln	Thr	Pro	Pro	Ser	Leu	Pro	Asn
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Ser	Gly	Leu	Leu	Ala	Glu	Ser	Thr	Trp	Ala	Leu	Asp	Thr	Ile	Asn	Ile
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Leu	Leu	Tyr	Asp	Asp	Ser	Thr	Val	Ala	Thr	Phe	Asn	Leu	Ser	Gln	Leu
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				980			985					990			
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Lys	Met	Glu	Ile	Pro	Pro	Arg	Arg	Arg	Pro	Pro	Pro	Pro	Leu	Ser	Ser
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Pro	Gly	Ala	Leu	Pro	Glu	Asp	Ala	Asn	Pro	Gly	Pro	Gln	Thr	Glu	Ser
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Trp Trp Asp Cys Leu Glu Val Leu Arg Asp Asn Thr Leu Val Thr Leu
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1265          1270          1275          1280
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Gly Asn Leu Ile Ser Phe Leu Glu Asp Gly Val Thr Met Ala Gln Tyr
1395          1400          1405
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Pro Pro Ser Val Asp Met Met Cys Arg Ala Ala Lys Ala Leu Leu Ala
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Met Ala Arg Val Asp Glu Asn Arg Ser Glu Phe Leu Leu His Glu Gly
1445          1450          1455
Arg Leu Leu Asp Ile Ser Ile Ser Ala Val Leu Asn Ser Leu Val Ala
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&lt;210&gt; 1039

&lt;211&gt; 379

&lt;212&gt; DNA

&lt;213&gt; Homo sapiens

&lt;400&gt; 1039

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cagagggggag agaggggagag agtgtgagag ctaagggttc gggagaagac tttgtggaaa
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gattttgtat gtattgaagg cctgaatac ttttttgaaa gagaatgaca tgagtacacc
300

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<210> 1040

<211> 125

<212> PRT

<213> Homo sapiens

<400> 1040

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Phe Gln Lys Ser Ile Gln Gly Leu Gln Tyr Ile Gln Asn Leu Glu Trp
             35             40             45
Ser Ser Pro Val Thr Glu Ser Trp Leu Cys Cys Arg Thr Gln Pro Lys
             50             55             60
Thr Phe Ser Thr Lys Ser Ser Pro Glu Thr Leu Ala Leu Thr Leu Ser
65             70             75             80
Pro Ser Leu Pro Ser Ala Pro Arg Leu Tyr Leu Val Ser Leu Cys Ala
             85             90             95
Leu Val Thr Pro Gln Ala Lys Val Ile Pro Cys Gly Gly Gly Leu Ser
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Arg Ala Leu Arg Asp Val Gln Gln His Pro Trp Leu Leu
             115            120            125

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<210> 1041

<211> 388

<212> DNA

<213> Homo sapiens

<400> 1041

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120
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240
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300
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388

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<210> 1042

<211> 129

<212> PRT

<213> Homo sapiens

&lt;400&gt; 1042

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           20             25             30
Ala Leu Thr Ile Pro Val Leu Ala Leu Ser Met Ile Pro Ala Leu His
 35             40             45
Phe Pro His Trp Pro Leu Trp Ala Leu Ala Leu Thr Thr Pro Val Val
 50             55             60
Phe Trp Gly Ala Trp Pro Leu His His Ala Ala Trp Thr Asn Leu Arg
 65             70             75             80
His Gly Ala Ala Ile Met Asp Thr Leu Val Ser Leu Gly Val Leu Thr
           85             90             95
Ser Tyr Leu Trp Ser Val Trp Met Leu Thr Thr Gly Gly Glu His Leu
          100             105             110
Tyr Leu Glu Val Ala Val His Arg His Asp Ala Asp Pro Gly Arg Gln
          115             120             125
Ile

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&lt;210&gt; 1043

&lt;211&gt; 555

&lt;212&gt; DNA

&lt;213&gt; Homo sapiens

&lt;400&gt; 1043

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 120
gatgcctacg gcgcgcaatt acgcgacgca ttgttggttg aaggcatcga ttgccaggcc
 180
gtcagcaccg tcgacgggttc cagcggtgtg gcgctgatcg tgggtggatga cagcagccag
 240
aatgcgatcg ttatcgctgc cggtagcaat ggcgagctga ctccggccaa gttacagacc
 300
tttgacagcg tgctgcaggc tgccgacgtg attgtctgag agcttgagac gccgatggac
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actgtcggcc atgcgcctaa gcgcggtcgc gaactgggca agacggtgat cctcaatccg
 420
gcgcgggcca ggcggccgct gctgaggat tggtagccgc ccacgatta cctgattccc
 480
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 540
gtcgtgcta cgcgt
 555

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&lt;210&gt; 1044

&lt;211&gt; 185

&lt;212&gt; PRT

&lt;213&gt; Homo sapiens

&lt;400&gt; 1044

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Thr Gly Glu Thr Leu Ile Gly Gln Ser Phe Ser Thr Val Pro Gly Gly

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20
Ala Met Val Gly Cys Val Gly Thr Asp Ala Tyr Gly Ala Gln Leu Arg
35
Asp Ala Leu Leu Val Glu Gly Ile Asp Cys Gln Ala Val Ser Thr Val
50
Asp Gly Ser Ser Gly Val Ala Leu Ile Val Val Asp Asp Ser Ser Gln
65
Asn Ala Ile Val Ile Val Ala Gly Ser Asn Gly Glu Leu Thr Pro Ala
85
Lys Leu Gln Thr Phe Asp Ser Val Leu Gln Ala Ala Asp Val Ile Val
100
Cys Gln Leu Glu Thr Pro Met Asp Thr Val Gly His Ala Pro Lys Arg
115
Gly Arg Glu Leu Gly Lys Thr Val Ile Leu Asn Pro Ala Pro Ala Ser
130
Gly Pro Leu Pro Glu Asp Trp Tyr Ala Ala Ile Asp Tyr Leu Ile Pro
145
Asn Glu Ser Glu Ala Ser Ala Leu Ser Gly Val Val Val Asp Ser Leu
165
Asp Ser Ala Lys Val Ala Ala Thr Arg
180
185

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&lt;210&gt; 1045

&lt;211&gt; 371

&lt;212&gt; DNA

&lt;213&gt; Homo sapiens

&lt;400&gt; 1045

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60
cactccaaat tccccgagac gcaccttatg aatctatttc tcggcgctctg caaggccctg
120
cgcgccatgc acgattacca cgcaccgccg gcagagcgca tgccaattgg gcaccgaagg
180
cagaccacca cccagggtgca aagcaacagt ggtagagcgg tcgctcatcg acgaacgta
240
cgaagaaga cgaagagacg gagcaggaaa gacctgttat ggaatcacag aaccacatcg
300
ggcagggcgg cgagcacaaa accatatgcg catcgcgaca ttaaacagg tacgtgctgc
360
aagctcctcg g
371

```

&lt;210&gt; 1046

&lt;211&gt; 123

&lt;212&gt; PRT

&lt;213&gt; Homo sapiens

&lt;400&gt; 1046

```

Leu Leu Pro Tyr Tyr Arg Arg Gly Asn Leu Gln Asp Met Ile Asn Ala
1           5           10           15
Asn Leu Phe Asn His Ser Lys Phe Pro Glu Thr His Leu Met Asn Leu

```

20										25					30				
Phe	Leu	Gly	Val	Cys	Lys	Ala	Leu	Arg	Ala	Met	His	Asp	Tyr	His	Ala				
35					40					45									
Pro	Pro	Ala	Glu	Arg	Met	Pro	Ile	Gly	His	Arg	Arg	Gln	Thr	Thr	Thr				
50					55					60									
Gln	Val	Gln	Ser	Asn	Ser	Gly	Arg	Ala	Val	Ala	His	Arg	Arg	Asn	Val				
65					70					75									
Arg	Lys	Lys	Thr	Lys	Arg	Arg	Ser	Arg	Lys	Asp	Leu	Leu	Trp	Asn	His				
85					90					95									
Arg	Thr	Thr	Ser	Gly	Arg	Ala	Ala	Ser	Thr	Lys	Pro	Tyr	Ala	His	Arg				
100					105					110									
Asp	Ile	Lys	Pro	Gly	Thr	Cys	Cys	Lys	Leu	Leu									
115					120														

&lt;210&gt; 1047

<211> 754

<212> DNA

<213> Homo sapiens

<400> 1047

natgccccaga	aggaccttga	cgaggcgctt	ccagcccttg	atcgcgctct	ggccagccta
60	cgcaacctca	acaagaacga	agtgacccag	gtacgtgcc	tgacagcgcc
120	gtgaaactgg	tcatagaagc	tgtgtgcatt	atgaaaggca	tcaagcccaa
180	ggagaaaaag	caggcaccaa	ggtggatgac	tactggggag	ctggcaaggg
240	gacccggggc	acttccttga	gagcctcttc	aagtttgaca	aggacaacat
300	gtgatcaaa	ccatccagcc	gtacatcgat	aatgaagagt	tccagccagc
360	aagggtgtcca	agggttgccc	cttcatttgg	ccgtgggggg	gggcaatgcc
420	tttgtgtggca	aggccgtgga	gcccaagcgg	caagccctgc	tggaggccca
480	gggggtgacac	agaggatcct	ggatgaggca	aaacagcgcc	ttcgtgaggt
540	atcgccacaaa	tgagggttaa	gtaccgggaa	tgcatatcca	agaaggagga
600	aagtgtgtagc	agtgtgagca	gcggctgggc	cacgctggca	aggtgcgcac
660	caaggcctgc	aagcggggccc	ggcccagaca	ggggccagaa	aggaccaggc
720	tctgggggtg	gctgtccaac	cccctccctg	gcaa	
754					

<210> 1048

<211> 251

<212> PRT

<213> Homo sapiens

<400> 1048

Xaa Ala Gln Lys Asp Leu Asp Glu Ala Leu Pro Ala Leu Asp Ala Ala

1	5	10	15
Leu Ala Ser	Leu Arg Asn Leu Asn Lys	Asn Glu Val Thr Gln Val Arg	
	20	25	30
Ala Met Gln Arg	Pro Pro Pro Gly Val Lys	Leu Val Ile Glu Ala Val	
	35	40	45
Cys Ile Met Lys	Gly Ile Lys Pro Lys Lys	Val Pro Gly Glu Lys Pro	
	50	55	60
Gly Thr Lys Val	Asp Asp Tyr Trp Glu Pro Gly	Lys Gly Leu Leu Gln	
	65	70	75
Asp Pro Gly His	Phe Leu Glu Ser Leu Phe	Lys Phe Asp Lys Asp Asn	
	85	90	95
Ile Gly Asp Val	Ile Lys Ala Ile Gln Pro Tyr	Ile Asp Asn Glu	
	100	105	110
Glu Phe Gln Pro	Ala Thr Ile Ala Lys Val Ser	Lys Gly Cys Pro Phe	
	115	120	125
Ile Trp Pro Trp	Gly Gly Ala Met Pro Lys Tyr	Pro Phe Val Ala Lys	
	130	135	140
Ala Val Glu Pro	Lys Arg Gln Ala Leu Leu Glu	Ala Gln Asp Asp Leu	
	145	150	155
Gly Val Thr Gln	Arg Ile Leu Asp Glu Ala Lys	Gln Arg Leu Arg Glu	
	165	170	175
Val Glu Asp Gly	Ile Ala Thr Met Gln Ala Lys	Tyr Arg Glu Cys Ile	
	180	185	190
Thr Lys Lys Glu	Glu Glu Leu Glu Leu Lys	Cys Glu Gln Arg	
	195	200	205
Leu Gly His Ala	Gly Lys Val Arg Thr Leu Leu	Leu Gln Gly Leu Gln	
	210	215	220
Ala Gly Pro Ala	Gln Thr Gly Ala Arg Lys Asp	Gln Gly Ala Gly Gly	
	225	230	235
Ser Trp Gly Gly	Cys Pro Thr Pro Ser Leu Ala		240
	245	250	

&lt;210&gt; 1049

&lt;211&gt; 558

&lt;212&gt; DNA

&lt;213&gt; Homo sapiens

&lt;400&gt; 1049

cgcagcaata gctgcacttg accagactgg gctttgcaat aagcgcatcc cccgggctga  
 60  
 atgctgcaga tccttacagg ctgactgcag ggtgtttcag attctcctgg agtcacacgt  
 120  
 gccagcttga tttcaagaaa caactagaat aacagttttc tgataagaag tctatagcac  
 180  
 ttatggcgtt acataatcca gagatagatg ggctgggcat gattccattt ttctgttggg  
 240  
 gaaaccgact cacagagaag ttaagggaca agtataaagt gatgaaactg tgtactgaac  
 300  
 ctcatgtctc ccagactccc gggtcccggt gctttttctc ggggaggccc cattcacatt  
 360  
 gcaattcatg gccggggcaa atgctcacc acagagatat taagcactcc aacactccat  
 420  
 ccaccagggt gcagccaaag gattcagaag acaatgatca ttccatcagc atgcactatg  
 480

cagctaaaga aagggttttg catgctctgc tttattgttt cacagaagat aagaaaataa  
 540  
 actgcaaagt aacttaag  
 558

<210> 1050  
 <211> 112  
 <212> PRT  
 <213> Homo sapiens

<400> 1050  
 Met Ile Pro Ile Phe Cys Trp Gly Asn Arg Leu Thr Glu Lys Leu Arg  
 1 5 10 15  
 Asp Lys Tyr Lys Val Met Lys Leu Cys Thr Glu Pro His Val Ser Gln  
 20 25 30  
 Thr Pro Gly Ser Pro Gly Phe Phe Ser Gly Arg Pro His Ser His Cys  
 35 40 45  
 Asn Ser Trp Pro Gly Gln Met Leu Thr His Arg Asp Ile Lys His Ser  
 50 55 60  
 Asn Thr Pro Ser Thr Arg Leu Gln Pro Lys Asp Ser Glu Asp Asn Asp  
 65 70 75 80  
 His Ser Ile Ser Met His Tyr Ala Ala Lys Glu Arg Phe Trp His Ala  
 85 90 95  
 Leu Leu Tyr Cys Phe Thr Glu Asp Lys Lys Ile Asn Cys Lys Val Thr  
 100 105 110

<210> 1051  
 <211> 317  
 <212> DNA  
 <213> Homo sapiens

<400> 1051  
 gcgttgagtc gggatgtcgc attcatgccc ggcgaaacctt tttttgccga accggagcgt  
 60  
 aatccgggta atcttcgtct caatttcagt cacatcgcac cggagcgtct ggacgaaggt  
 120  
 ctcaagcgcc tggtgctgt catccgtcac gcacaggctg cacaagcgcc ttaaggggag  
 180  
 ggccatgtac aagggtttatg gcgattacca gtcgggcaat tgctacaaga tcaagctgat  
 240  
 gctgcacctg ctggggcagg aatatcgctg gcacccgggg gacatcctca aggtgacacc  
 300  
 gagaccccg aattttt  
 317

<210> 1052  
 <211> 57  
 <212> PRT  
 <213> Homo sapiens

<400> 1052  
 Ala Leu Ser Arg Asp Val Ala Phe Met Pro Gly Glu Pro Phe Phe Ala  
 1 5 10 15  
 Glu Pro Glu Arg Asn Pro Gly Asn Leu Arg Leu Asn Phe Ser His Ile

```

                20                25                30
Ala Pro Glu Arg Leu Asp Glu Gly Leu Lys Arg Leu Ala Ala Val Ile
                35                40                45
Arg His Ala Gln Ala Ala Gln Ala Ala
                50                55

```

<210> 1053  
 <211> 318  
 <212> DNA  
 <213> Homo sapiens

```

<400> 1053
caattggccta cgcgatccga acgggcgcgat gggctctctat gactggcaag ccgtcgctcg
60
cggggagtg ggcctcgact atgcctacgc gatgtcgggtg aacctgacca ccgagaaccg
120
gcgtgcctgg gaacgcgacc tgctcgagcg ttatctgtgg cgcctcgccg aagaggggtg
180
cgccaaccgg ccctcggttcg agcaagcgtg gctacgctac cggcaacagc cgttcacagt
240
cgggatcttc tcaactcttga ccacggcgcg cggacgcttt caaccggcca tgcaaccggc
300
ggactcnnnn ccccnnc
318

```

<210> 1054  
 <211> 96  
 <212> PRT  
 <213> Homo sapiens

```

<400> 1054
Met Gly Leu Tyr Asp Trp Gln Ala Val Ala Arg Gly Glu Trp Ala Leu
1          5          10          15
Asp Tyr Ala Tyr Ala Met Ser Val Asn Leu Thr Thr Glu Asn Arg Arg
          20          25          30
Ala Trp Glu Arg Asp Leu Leu Glu Arg Tyr Leu Trp Arg Leu Ala Glu
          35          40          45
Glu Gly Val Ala Asn Pro Pro Ser Phe Glu Gln Ala Trp Leu Arg Tyr
          50          55          60
Arg Gln Gln Pro Phe His Val Gly Ile Phe Ser Leu Leu Thr Ile Gly
          65          70          75          80
Ala Gly Arg Phe Gln Pro Ala Met Gln Pro Ala Asp Ser Xaa Pro Xaa
          85          90          95

```

<210> 1055  
 <211> 391  
 <212> DNA  
 <213> Homo sapiens

```

<400> 1055
tacaatgtat catcaaccag aaatacaatg agaaccacct gccagtctcc caaatactat
60
ctgcagccac tcatttaact ctccgtgcta gctccacgtg ggccgtctga actctcttag
120

```

aagaatcatc tctctgctca ggcaccggga gcaaggggca tctgtcgctc tgcagaacgg  
 180  
 aggggaccag gcctgatgaa caccatcctg ggcccagaaa cctgggaggg taaagagaac  
 240  
 tgccaggggt gaagtccaag gatgggaaaa aggcctccgg ggcagagatcc tgaatgtca  
 300  
 gaagtacacc aaagaggaaa cagcatcacg ttattgctga ggcagggcct cattctgttg  
 360  
 ccaagggtgc agtgagtggt tgacaccatg g  
 391

<210> 1056

<211> 83

<212> PRT

<213> Homo sapiens

<400> 1056

Met	Val	Ser	Pro	Leu	His	Cys	Ser	Leu	Gly	Asn	Arg	Met	Arg	Pro	Cys
1				5				10				15			
Leu	Ser	Asn	Asn	Val	Met	Leu	Phe	Pro	Leu	Trp	Cys	Thr	Ser	Asp	Ile
		20						25				30			
Ser	Gly	Leu	Cys	Pro	Gly	Gly	Leu	Phe	Pro	Ile	Leu	Gly	Leu	His	Pro
		35					40					45			
Trp	Gln	Phe	Ser	Leu	Pro	Ser	Gln	Val	Ser	Gly	Pro	Arg	Met	Val	Phe
	50					55				60					
Ile	Arg	Pro	Gly	Pro	Leu	Arg	Ser	Ala	Glu	Arg	Gln	Met	Pro	Leu	Ala
65					70					75				80	
Pro	Gly	Ala													

<210> 1057

<211> 341

<212> DNA

<213> Homo sapiens

<400> 1057

gaattccctg cgcgtgtgac gccggtcgcc gagcaactcg cgcgtgcgct gacgctgcat  
 60  
 ccgatgac cgcgcgtcc gctgttcggg ttgccgcgca ttgcgtccag cgccgaggac  
 120  
 tatcaggcgc tgctcgatgc ggtaccgtcc aaggcgaacg gcattcgctt gtgcacgggt  
 180  
 tcgctcggcg tgcgcgcgga gaacgatctg cctgaaatgg ccgaacgttt cgcccgctg  
 240  
 atcgcccttg cgcattctgc cgcgaccaag cgcgacgcgc atggcctgtc gtttcatgaa  
 300  
 tccgaccatc tcgacggcga tgtcgacatg gtcgcgtgct c  
 341

<210> 1058

<211> 113

<212> PRT

<213> Homo sapiens

&lt;400&gt; 1058

```

Glu Phe Pro Ala Arg Val Thr Pro Val Ala Glu Gln Leu Gly Val Ser
1           5           10           15
Leu Thr Leu His Pro Asp Asp Pro Arg Pro Leu Phe Gly Leu Pro
20           25           30
Arg Ile Ala Ser Ser Ala Glu Asp Tyr Gln Ala Leu Phe Asp Ala Val
35           40           45
Pro Ser Lys Ala Asn Gly Ile Cys Leu Cys Thr Gly Ser Leu Gly Val
50           55           60
Arg Ala Glu Asn Asp Leu Pro Glu Met Ala Glu Arg Phe Gly Pro Arg
65           70           75           80
Ile Ala Phe Ala His Leu Arg Ala Thr Lys Arg Asp Ala Asp Gly Leu
85           90           95
Ser Phe His Glu Ser Asp His Leu Asp Gly Asp Val Asp Met Val Ala
100           105           110
Cys

```

&lt;210&gt; 1059

&lt;211&gt; 372

&lt;212&gt; DNA

&lt;213&gt; Homo sapiens

&lt;400&gt; 1059

```

nagctgaccg gctggcagat caacatcatg acgccggaag aaagcgtgaa ccgccgggaa
60
gtcgagcgtt cgggcctgcg caccacgttc atgaacaagc tggacgtcga tgaggaaagtc
120
gccgacatcc tgatcgacga aggtttcacc ggtatcgagg aaatcgccta cgtcccatg
180
caggaactgc tggagatcga ggcgttcgac gaagacacca tcaacgagtt gcgcgcccg
240
gcccgcgaatg cgctgctgac cgaggccatc gcccaggaag agcgccctga gaccgcgcag
300
gatctgcttg aactcgaagg cgtgacgccg gaactggctg ccaagctggc cgagcgtcaa
360
gtgcgtacgc gt
372

```

&lt;210&gt; 1060

&lt;211&gt; 124

&lt;212&gt; PRT

&lt;213&gt; Homo sapiens

&lt;400&gt; 1060

```

Xaa Leu Thr Gly Trp Gln Ile Asn Ile Met Thr Pro Glu Glu Ser Val
1           5           10           15
Asn Arg Arg Glu Val Glu Arg Ser Gly Leu Arg Thr Thr Phe Met Asn
20           25           30
Lys Leu Asp Val Asp Glu Glu Val Ala Asp Ile Leu Ile Asp Glu Gly
35           40           45
Phe Thr Gly Ile Glu Glu Ile Ala Tyr Val Pro Met Gln Glu Leu Leu
50           55           60
Glu Ile Glu Ala Phe Asp Glu Asp Thr Ile Asn Glu Leu Arg Ala Arg

```

```

65              70              75              80
Ala Arg Asn Ala Leu Thr Glu Ala Ile Ala Gln Glu Glu Arg Leu
              85              90              95
Glu Thr Ala Gln Asp Leu Leu Glu Leu Glu Gly Val Thr Pro Glu Leu
              100              105              110
Ala Ala Lys Leu Ala Glu Arg Gln Val Arg Thr Arg
              115              120

```

<210> 1061  
 <211> 456  
 <212> DNA  
 <213> Homo sapiens

```

<400> 1061
tctagactcc atggcaccgg gctgagcggg taagtaagaa agataaaaaa tgccttttgc
60
cccttcgagg aaacctttt gcaggccaag caagggtgc aagtgtttgg gagctgagag
120
gagaaggagg attctggagc attgtatttg gcagccggag ggggcagtgg gcgggggggtt
180
gggacacgaa gggctcttcg gacctctgtg cctcttctgc cccaaggcgc agaagacggg
240
cttcgcagcg accctcgggg gtccatggag ccgcctgcct tcgccccctc gctcttccca
300
ggctctgaacc tggatgggga gaagaaattg aagtgccttg gagacggggg ggcttaaaac
360
actaggagc ctcatcgccc agccttgggc ccactttcct ttcgatcgtg aggattccgc
420
accccgaagc cgtcttctcg gggctccggg gcgcgcg
456

```

<210> 1062  
 <211> 125  
 <212> PRT  
 <213> Homo sapiens

```

<400> 1062
Met Arg Leu Pro Ser Val Leu Ser Pro Pro Val Ser Lys Ala Leu Gln
1          5          10          15
Phe Leu Leu Pro Ile Gln Val Gln Thr Trp Glu Glu Arg Gly Gly Glu
20         25         30
Gly Arg Arg Leu His Gly Pro Pro Arg Val Ala Ala Lys Pro Val Phe
35         40         45
Ser Pro Leu Gly Gln Lys Arg His Arg Gly Pro Lys Ser Pro Ser Cys
50         55         60
Pro Asn Pro Pro Pro Thr Ala Arg Ser Gly Cys Gln Ile Gln Cys Ser
65         70         75         80
Arg Ile Leu Leu Leu Leu Ser Ala Pro Lys His Leu Gln Pro Leu Leu
85         90         95
Gly Leu Gln Lys Gly Phe Leu Glu Gly Ala Lys Gly Thr Phe Tyr Leu
100        105        110
Ser Tyr Leu Pro Ala Gln Pro Gly Ala Met Glu Ser Arg
115        120        125

```

<210> 1063  
 <211> 3760  
 <212> DNA  
 <213> Homo sapiens

<400> 1063  
 nttagtagaga caggggtttca ccatgttggc caggctgggc ttgaactcct gagcttgtga  
 60  
 tccaccgcc tcagcctccc aaagtgtggt gattacaggc gtgacgactg caccagccct  
 120  
 taagggtctta taactagtaa atatctgcat taaagaacga gttgaatgaa aattctgata  
 180  
 aattcctact taaagtgtat ccaagaaaaa cggaaaaagt ctaggagtta gtgatattag  
 240  
 attcagaaga atgagctttg taattcttaa aaattagtct cagaatagaa aggattttaa  
 300  
 aagtaattga gtaaagtcac aggaatgtg accatataaa ggaatggctc taaatgtatt  
 360  
 aatccagaag gaagcaacag gttaaacagt aagaggttaag aaacaaaaaa taaggaacga  
 420  
 gagagagaga gtgacaggga gagagagaca gagcggggaa ggagagaatg agaagggaaa  
 480  
 tcaggaaaaa gaggagaaac agaattaagg aggtgatact ggaatagat cagaccattc  
 540  
 tgaatcaatt taagaattgc catgtctaatt tcttatatgg aagatttgaa atacaaggat  
 600  
 attgaaagga ataacaaatt ataataatg catagaaac cttatgtaac ccaaggtcat  
 660  
 taatttgaag gaagacatca agaaaatgtg atctagaaat aaaggttgag attgctccat  
 720  
 ttacaaaatt attatgctct ataattctcc catatgcaa tatttcatat tccctctttt  
 780  
 gtcccatgga catatttcac agcaacaacg aatcaagtgc tgacctaaat ggggtatctg  
 840  
 ttaaaaactta gtatattgat atccttcacc cactccagg aacgttcgct acgctaggac  
 900  
 tgcattcttg gaacagaatt ttagagatga tcatctctta catcagaagc aggatctaaa  
 960  
 tgatccctgg atgccaatt tctgacctt gctattgttg tgggtggcaa gataagagga  
 1020  
 gttgcatcac agatgaaaaa gtaaggccga agaagaccag agaagagtgt gttgaatgtg  
 1080  
 tagatataag atccatctgt gacattgtag aatgaaattt caccggcttc atagtccaag  
 1140  
 aaaatcccaa tgcagtgagg actttccagt tggagaagag gcaatgatgg ggaggcaagg  
 1200  
 accatgtact cattcccttt cagcagccac agggcccgaa cccattctc aggagatggc  
 1260  
 gtgggtttcc cttttcttgg cagtgtgtct tgacagacc ctaaacccca ctctgctcct  
 1320  
 tctcccacca gaacctccca gtaatgcctc cctgatgaga agctctgcaa acccaggatg  
 1380  
 cagggccatg tgtcaaatcg ctacgggttg ttggggacat cctccatgg tctccatcc  
 1440

tgcaactgc gcaggtcggc ggtcaagagc agactcgggt gcgcgctggc gggatccagc  
1500  
tttacatcca ctggaactt ccttaagagc tccctcctcc cagggatgca gcatgtctgc  
1560  
ttcagttcca tgggatgtt ctctgcttcc agccttgtga cagccttact tctgtcagc  
1620  
actccttcca caccctccag cagacccagg gctggcgctt ggcacctctc ctgcagctca  
1680  
tcgcgcagct ccttcagggc ctgtctctgc tggaccagcc ggctcttgct ctcccgcagt  
1740  
ctctgcagcg tcgctcgctc ctccgcctcc agccgcctca gctaccaggt aaagctccag  
1800  
atggctctgg aacttatgag gaaagagttg gaggacgctt tgactcagga ggccaacgtg  
1860  
gggaaaaaga ctgtcatttg gaaggagaaa gtggaaatgc agaggcagcg cttcagattg  
1920  
gagtttgaga agcatcgtgg ctttctggcc caggaggagc aacggcagct gagggcggtg  
1980  
gaggcggagg agcagcgac gctgcagaga ctgcgggaga gcaagagccg gctgggtccag  
2040  
cagagcaagg ccctgaagga gctggcggat gagctgcagg agaggtgccg gcgcccagcc  
2100  
ctgggtctgc tggaggggtg gagaggagtc ctgagcagaa gtaaggctgt cacaaggctg  
2160  
gaagcagaga acatcccat ggaactgaag acagcatgct gcatccctgg gaggagggag  
2220  
ctcttaagga agttccaagt ggaatgaag ctggatcccg ccacggcgca cccgagtcg  
2280  
ctcttgaccg ccgacctgcg cagtgtgcag gatggagaac catggaggga tgtccccaac  
2340  
aacctgagc gatttgacac atggccctgc atcctgggtt tgcagagctt ctcatcaggg  
2400  
aggcattact gggaggttct ggtgggagaa ggagcagagt ggggtttagg ggtctgtcaa  
2460  
gacacactgc caagaaagg ggaaccatg ccatctctg agaattgggt ctggggccctg  
2520  
tggctgctga aagggaatga gtacatggtc cttgcctccc catcagtgc tcttctccaa  
2580  
ctggaaagtc ctgcctgcat tgggattttc ttggactatg aagccggtga aatttcattc  
2640  
tacaatgtca cagatggatc ttatatctac acattcaacc aactcttctc tgggtctctt  
2700  
cggccttact ttttcatctg tgatgcaact cctcttatct tgccaccac gacaatagca  
2760  
gggtcaggaa attgggcac cagggatcat ttatagctctg cttctgatgt aagagatgat  
2820  
catctctaaa attctgttcc caagatgcag tctagcgta gcgaacgttc ctggagtggg  
2880  
gtgaaggata tcaatatact aagttttaac agatacccca tttaggctcag cacttgattc  
2940  
gttgtgtctg tgaatatgt ccatgggaca aaagagggaa tatgaaatat ttgcatatgg  
3000  
gaagattata gagcataata attttgtaaa tggagcaatc tcaacctcta tttctagatc  
3060

acattttctt gatgtcttcc ttcaaattaa tgaccttgga ttacataagg atttctatgc  
 3120  
 attcattata atttgttatt cctttcaata tccttgtatt tcaaactctc catataagaa  
 3180  
 ttagacatgg caattcttaa attgattcag aatgggtctga tactattcca gtatcacctc  
 3240  
 ctttaattctg tttctctctg ttttctgat tttctctctc attctctctc tccccgctct  
 3300  
 gtctctctct cctgtcact ctctctctct cgttccttat tttttgtttc ttacctctta  
 3360  
 ctgtttaacc tgttgcttcc ttctggatta atacatttag agccattctc ttatatggtc  
 3420  
 acatttctta tgactttact caattacttt taaaatcctt tctattctga gactaatttt  
 3480  
 taagaattac aaagctcatt ctctgaatc taatatcact aactcctaga ctttttccgt  
 3540  
 tttcttttga tacactttaa gtaggaattt atcagaattt tcattcaact cgttctttaa  
 3600  
 tgcagatatt tactgggtat aagaccttaa ggctgggtgc agtggctcac gcctgtggtc  
 3660  
 ccagcgcttt ggggggctga ggcgggtgga tcacaggctc gggagttcgg ggccagcctg  
 3720  
 gccagcatgg tgaaccctg tctctactag aaaaaaaaaa  
 3760

&lt;210&gt; 1064

&lt;211&gt; 483

&lt;212&gt; PRT

&lt;213&gt; Homo sapiens

&lt;400&gt; 1064

Met	Gln	Gly	His	Val	Ser	Asn	Arg	Ser	Gly	Leu	Leu	Gly	Thr	Ser	Leu
1				5					10					15	
His	Gly	Ser	Pro	Ser	Cys	Thr	Leu	Arg	Arg	Ser	Ala	Val	Lys	Ser	Arg
			20					25					30		
Leu	Gly	Cys	Ala	Val	Ala	Gly	Ser	Phe	Thr	Ser	Thr	Trp	Asn	Phe	
			35			40					45				
Leu	Lys	Ser	Ser	Leu	Leu	Pro	Gly	Met	Gln	His	Ala	Val	Phe	Ser	Ser
	50					55				60					
Met	Gly	Met	Phe	Ser	Ala	Ser	Ser	Leu	Val	Thr	Ala	Leu	Leu	Leu	Leu
65					70					75				80	
Arg	Thr	Pro	Leu	Thr	Pro	Ser	Ser	Arg	Pro	Arg	Ala	Gly	Arg	Trp	His
				85				90					95		
Leu	Ser	Cys	Ser	Ser	Ser	Ala	Ser	Ser	Phe	Arg	Ala	Leu	Leu	Cys	Trp
			100					105					110		
Thr	Ser	Arg	Leu	Leu	Leu	Ser	Arg	Ser	Leu	Cys	Ser	Val	Ala	Arg	Ser
			115				120					125			
Ser	Ala	Ser	Ser	Arg	Leu	Ser	Tyr	Gln	Val	Lys	Leu	Gln	Met	Ala	Leu
			130			135					140				
Glu	Leu	Met	Arg	Lys	Glu	Leu	Glu	Asp	Ala	Leu	Thr	Gln	Glu	Ala	Asn
145				150						155				160	
Val	Gly	Lys	Lys	Thr	Val	Ile	Trp	Lys	Glu	Lys	Val	Glu	Met	Gln	Arg
			165					170						175	
Gln	Arg	Phe	Arg	Leu	Glu	Phe	Glu	Lys	His	Arg	Gly	Phe	Leu	Ala	Gln

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      180              185              190
Glu Glu Gln Arg Gln Leu Arg Arg Leu Glu Ala Glu Glu Arg Ala Thr
      195              200              205
Leu Gln Arg Leu Arg Glu Ser Lys Ser Arg Leu Val Gln Gln Ser Lys
      210              215              220
Ala Leu Lys Glu Leu Ala Asp Glu Leu Gln Glu Arg Cys Gln Arg Pro
      225              230              235              240
Ala Leu Gly Leu Leu Glu Gly Val Arg Gly Val Leu Ser Arg Ser Lys
      245              250              255
Ala Val Thr Arg Leu Glu Ala Glu Asn Ile Pro Met Glu Leu Lys Thr
      260              265              270
Ala Cys Cys Ile Pro Gly Arg Arg Glu Leu Leu Arg Lys Phe Gln Val
      275              280              285
Asp Val Lys Leu Asp Pro Ala Thr Ala His Pro Ser Leu Leu Leu Thr
      290              295              300
Ala Asp Leu Arg Ser Val Gln Asp Gly Glu Pro Trp Arg Asp Val Pro
      305              310              315              320
Asn Asn Pro Glu Arg Phe Asp Thr Trp Pro Cys Ile Leu Gly Leu Gln
      325              330              335
Ser Phe Ser Ser Gly Arg His Tyr Trp Glu Val Leu Val Gly Glu Gly
      340              345              350
Ala Glu Trp Gly Leu Gly Val Cys Gln Asp Thr Leu Pro Arg Lys Gly
      355              360              365
Glu Thr Met Pro Ser Pro Glu Asn Gly Val Trp Ala Leu Trp Leu Leu
      370              375              380
Lys Gly Asn Glu Tyr Met Val Leu Ala Ser Pro Ser Val Pro Leu Leu
      385              390              395              400
Gln Leu Glu Ser Pro Arg Cys Ile Gly Ile Phe Leu Asp Tyr Glu Ala
      405              410              415
Gly Glu Ile Ser Phe Tyr Asn Val Thr Asp Gly Ser Tyr Ile Tyr Thr
      420              425              430
Phe Asn Gln Leu Phe Ser Gly Leu Leu Arg Pro Tyr Phe Phe Ile Cys
      435              440              445
Asp Ala Thr Pro Leu Ile Leu Pro Pro Thr Thr Ile Ala Gly Ser Gly
      450              455              460
Asn Trp Ala Ser Arg Asp His Leu Asp Pro Ala Ser Asp Val Arg Asp
      465              470              475              480
Asp His Leu

```

&lt;210&gt; 1065

&lt;211&gt; 892

&lt;212&gt; DNA

&lt;213&gt; Homo sapiens

&lt;400&gt; 1065

```

naccggtggt gtcattgggga ggtgggctgc agtgatgaga aaagccggg ggctgtgcaa
60
taccatgctt cacaagggga gaagatcaaa gtgacctcc cccatggctt tggaaccttc
120
ttgtccagtc tggaaggggg gaagaagaga tgaggggaag gctgtccagg ggggtgcaag
180
gccctagaga ccagcagag aagggaactct ggccactgaa ggggccctcc cattgtggct
240

```

ctggttccct agagcagetc cagcttcttg gcctcccccg tctgatgctt agtcacccc  
 300  
 atccccctgga gtgctgtgga gcttagatga aacagcccag tgctcactct tcaatgagcc  
 360  
 caccagagc agcatcaaga tgcagttggc ggggtactgg aactggcttg gcaagggctg  
 420  
 cgagggaac aggtcccagc aagagtcagc tagcctagct cagccctgca cacctggaga  
 480  
 cctgggggtg ctccagacac ctccggccctt taggtccctt taattgaatg tgtgtggatc  
 540  
 agtgaaggtt gaggaatcat ttctctatgg cccaagacgt ttctctctgc agttgtcatg  
 600  
 ttagtacctg ccagcttttc ctctcttaca taaatttcac gccagagcct ggaaatgtgt  
 660  
 gccctttgta ggaggggcat cacaggctgg ctccacctcag cagtgccagg cagagccctg  
 720  
 ccctctcatt gcaggaggcg catgaagcgt gtctgggacc gagctgtgga gttctgggcc  
 780  
 tcacaacgaat cccgatcca gacggagtcc caccgcgttg caggagagga catgctgggtg  
 840  
 ttgagatgga ctaagccctc ttctctctct gactcagagc gataagcccg gg  
 892

&lt;210&gt; 1066

&lt;211&gt; 76

&lt;212&gt; PRT

&lt;213&gt; Homo sapiens

&lt;400&gt; 1066

Met	Cys	Ala	Leu	Cys	Arg	Arg	Gly	Ile	Thr	Gly	Trp	Leu	Thr	Ser	Ala
1				5					10					15	
Val	Pro	Gly	Arg	Ala	Arg	Pro	Ser	His	Cys	Arg	Arg	Arg	Met	Lys	Arg
			20					25					30		
Val	Trp	Asp	Arg	Ala	Val	Glu	Phe	Leu	Ala	Ser	Asn	Glu	Ser	Arg	Ile
			35				40					45			
Gln	Thr	Glu	Ser	His	Arg	Val	Ala	Gly	Glu	Asp	Met	Leu	Val	Leu	Arg
		50				55					60				
Trp	Thr	Lys	Pro	Ser	Ser	Phe	Ser	Asp	Ser	Glu	Arg				
65					70					75					

&lt;210&gt; 1067

&lt;211&gt; 418

&lt;212&gt; DNA

&lt;213&gt; Homo sapiens

&lt;400&gt; 1067

gaattcgagg tcaccgcgaa tgtgttccgc gaaggccacg acgcgcctcg ggctagtgtc  
 60  
 gttctcaccg atccccaggg caaccgtcac ctactgaca tgcaccaggt cgagccctgg  
 120  
 ggactagaca tctggaaagc ccgagtctcc gctgacatcg aaggcgactg gactatgcac  
 180  
 gttgaaggct ggtcagacac ctggggcacy tggcatcaca atgccaatgc caagctcgcc  
 240

gctgccatcg acgtcgaaact ggtgtgcgcc gaaggccatg ccctcataaa cgaggcggtc  
 300  
 cggcacgcgc agcaatccgg ggatactgac gcgatcacgg ctctgcgcga gaccgatgcc  
 360  
 aacctaacc ttgacctgac ccccgactcg ctacaacagg tcatcaacac ctacgcgt  
 418

<210> 1068

<211> 139

<212> PRT

<213> Homo sapiens

<400> 1068

Glu	Phe	Glu	Val	Thr	Ala	Asn	Val	Phe	Arg	Glu	Gly	His	Asp	Ala	Val
1				5				10					15		
Gly	Ala	Ser	Val	Val	Leu	Thr	Asp	Pro	Glu	Gly	Asn	Arg	His	Leu	Thr
			20				25					30			
Asp	Met	His	Gln	Val	Glu	Pro	Trp	Gly	Leu	Asp	Ile	Trp	Lys	Ala	Arg
		35				40					45				
Val	Ser	Ala	Asp	Ile	Glu	Gly	Asp	Trp	Thr	Met	His	Val	Glu	Gly	Trp
	50				55				60						
Ser	Asp	Thr	Trp	Gly	Thr	Trp	His	His	Asn	Ala	Asn	Ala	Lys	Leu	Ala
65				70					75				80		
Ala	Ala	Ile	Asp	Val	Glu	Leu	Val	Cys	Ala	Glu	Gly	His	Ala	Leu	Ile
			85					90					95		
Asn	Glu	Ala	Val	Arg	His	Ala	Glu	Gln	Ser	Gly	Asp	Thr	Asp	Ala	Ile
		100					105					110			
Thr	Ala	Leu	Arg	Glu	Thr	Asp	Ala	Asn	Leu	Thr	Leu	Asp	Arg	Ala	Pro
		115				120						125			
Asp	Ser	Leu	Gln	Gln	Val	Ile	Asn	Thr	Tyr	Ala					
	130					135									

<210> 1069

<211> 371

<212> DNA

<213> Homo sapiens

<400> 1069

ntgtacaatt tccttgctgg aagtactgga gcgaatatga tacggtctcc ggcctctcag  
 60  
 cagttcatat gccgtcactc ccagggaacca ccagtcaca ccaaaggaat agcctgctcc  
 120  
 ttttctggag ctgaacatct caggtgccat gtaaggcttg gtgccagcca tgggtggagac  
 180  
 ctgcgttatc acctgcaaca gaacgtccac ttcaaggaag aaacagtga gctctttcatc  
 240  
 tgtgagctgg tcatggccct ggactacctg cagaaccagc gcattcattca cagggatatg  
 300  
 aagcctgaca atattttact tgacgaacat gggcacgtgc acatcacaga tttaacatt  
 360  
 gctgcgatgc t  
 371

<210> 1070

&lt;211&gt; 123

&lt;212&gt; PRT

&lt;213&gt; Homo sapiens

&lt;400&gt; 1070

```

Xaa Tyr Asn Phe Leu Ala Gly Ser Thr Gly Ala Asn Met Ile Arg Ser
 1             5             10             15
Pro Ala Ser Gln Gln Phe Ile Cys Arg His Ser Gln Gly Pro Val
      20             25             30
Asn Ser Lys Gly Ile Ala Cys Ser Phe Ser Gly Ala Glu His Leu Arg
 35             40             45
Cys His Val Arg Leu Gly Ala Ser His Gly Gly Asp Leu Arg Tyr His
 50             55             60
Leu Gln Gln Asn Val His Phe Lys Glu Glu Thr Val Lys Leu Phe Ile
 65             70             75             80
Cys Glu Leu Val Met Ala Leu Asp Tyr Leu Gln Asn Gln Arg Ile Ile
      85             90             95
His Arg Asp Met Lys Pro Asp Asn Ile Leu Leu Asp Glu His Gly His
      100            105            110
Val His Ile Thr Asp Phe Asn Ile Ala Ala Met
      115            120

```

&lt;210&gt; 1071

&lt;211&gt; 998

&lt;212&gt; DNA

&lt;213&gt; Homo sapiens

&lt;400&gt; 1071

```

nnacgcgttt gtgctgtcca tcagaagctg tgctcgattt gttaccgcaa gagcagcgtg
60
ggagtttcgt caaggaagac ggacaaatcg tcattgatga gaatggcaac agggtttgat
120
cccacccgaa gtacgtggcc ttggagtgcc attcgcactc cacttggcc cagtttgcatt
180
tcgacctaac cagcaattgc atctcgtttg acctgctcgc gttgtcaaca tcatagcaac
240
gagcggccaa tagcagagtt ctgggtcatcc tgttcgccc ttctcctat ttgaagcctc
300
agtttcacga aagagctggt tatgagtttt ccgtcaaacg gcgcttgat aggcataagg
360
ggtataccta tgatgcgtgt attcacagtt aaaaagggtt ctctcatggg ccatacagct
420
tcaaacaagc agcatcttct caaacgcgtg aaacgcacg cggggcaaat ccaggccgtt
480
gagcgctgcac tggagtcgga tgccgattgc gcgaaaacat tgcattctct agctgccaca
540
cgtggagcta tcaacggcct gatggacgaa attattgagg atcacgccag aaaacatgtg
600
gcgagcccaa cgcttagcga ttaataacgc aacaagggtg tcgaagagct tcttgaagcc
660
attcgccgct actccaagtg aagaatccag gtacatgtcc atgagtagca gccccaatat
720
cgagattagc cacatacatg accatgtggt ccttgggtca gcacgcgaag aaaatgccaa
780

```

gcgtaccctt tgggttgtgg cgcttacggt ggtgatgatg gttggcgaaa tcgtcgccgg  
 840  
 ctatctcact ggctcaatgg ctttacttgc cgacgggttt tcacaaggca accccatgca  
 900  
 ggcgcttttg gcacgcgtgc agctgcctac ggttacgcaa aacgccacgc ttccagcagt  
 960  
 cgttatagct tcggtacggg caaggttgga gacctagg  
 998

<210> 1072

<211> 72

<212> PRT

<213> Homo sapiens

<400> 1072

Met	Gly	His	Thr	Ala	Ser	Asn	Lys	Asp	Asp	Leu	Leu	Lys	Arg	Val	Lys
1				5				10					15		
Arg	Ile	Ala	Gly	Gln	Ile	Gln	Ala	Val	Glu	Arg	Ala	Leu	Glu	Ser	Asp
			20				25					30			
Ala	Asp	Cys	Ala	Lys	Thr	Leu	His	Leu	Val	Ala	Ala	Thr	Arg	Gly	Ala
		35				40					45				
Ile	Asn	Gly	Leu	Met	Asp	Glu	Ile	Ile	Glu	Asp	His	Ala	Arg	Lys	His
	50				55				60						
Val	Ala	Ser	Pro	Thr	Leu	Ser	Asp								
65					70										

<210> 1073

<211> 468

<212> DNA

<213> Homo sapiens

<400> 1073

tgtacaacac tcccatcctc tactctctgc atataccctg tatgtacttc atgttatagc  
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 tacaatggac aattttctat tcttcaagta cactcttccc atgtcccaac tgggatgctt  
 120  
 ttcccccatc gataaaatct tgcttctctt caaactccta ggcaaatttc tcctacttca  
 180  
 gaaagtcttg tttctccata tccttcgtaa ccaccacctg gtgcacatgc tgaaggcaga  
 240  
 attcattgtc tcctctcctt cactctcgaa tagctttgcc cagaccctca ggtactcctt  
 300  
 catcctctgt ataataattg gttttcacct ctttatgaac tcttttgat tctcattact  
 360  
 ggctctggaa ccagaacat accacgggtt caaggatgt tttaatgaat tgaatggaat  
 420  
 aaattttgtt gtgcttatgc agatacagat gccactaaac actgatca  
 468

<210> 1074

<211> 134

<212> PRT

<213> Homo sapiens

&lt;400&gt; 1074

```

Met Asp Asn Phe Leu Phe Phe Lys Tyr Thr Leu Pro Met Ser Gln Leu
1           5           10           15
Gly Cys Phe Ser Pro Thr Asp Lys Ile Leu Leu Leu Phe Lys Leu Leu
20          25          30
Gly Lys Phe Leu Leu Leu Gln Lys Val Leu Phe Leu His Ile Leu Arg
35          40          45
Asn His His Leu Val His Met Leu Lys Ala Glu Phe Ile Val Ser Ser
50          55          60
Pro Ser Leu Ser Asn Ser Phe Ala Gln Thr Leu Arg Tyr Ser Phe Ile
65          70          75          80
Leu Cys Ile Ile Phe Gly Phe His Leu Phe Met Asn Ser Phe Val Phe
85          90          95
Ser Leu Leu Ala Leu Glu Pro Arg Thr Tyr His Gly Phe Lys Val Cys
100         105         110
Phe Asn Glu Leu Asn Gly Ile Asn Phe Val Val Leu Met Gln Ile Gln
115         120         125
Met Pro Leu Asn Thr Asp
130

```

&lt;210&gt; 1075

&lt;211&gt; 1633

&lt;212&gt; DNA

&lt;213&gt; Homo sapiens

&lt;400&gt; 1075

```

gcgcgccagg gatgagtccc agtacttccg ctttcatgct gacgaggaga tggagggggac
60
cagcagcaag aacaacacgc ttgcgaacga cttcaagctg gtggagaaca ttctggccaa
120
gcgcctgctg atcctgcccc aggaggagga ctatggcttt gacatcgagg agaagaacaa
180
ggctgtgggt gtgaagtcgc tccagagggg cttgctggct gaggtggctg gcctgcaggt
240
ggggaggaag atctactcca tcaatgagga cctgggtgtc ctgcggccct tttcagaggt
300
ggagtccatc ctcaaccagt ccttctgtct ccgcgcacct ctgcgcctcc tgggtggccac
360
gaaggccaaa gagatcatca aaatccccga ccagccggac acactgtgct tccagattcg
420
tggagctgcc ccaccgtacg tctatgctgt ggggagaggc tctgaggcca tggctgcagg
480
gctctgtgct ggtcagtgca ttctgaaggt caatggcagc aacgtgatga acgatgggtg
540
ccctgaggtc ctggagcact tccaggcatt ccggagtcgg cgcgaagagg ccctgggcct
600
gtaccagtgg atctaccaca cccatgagga tgcccaggaa gcacagacca gtcaggaggc
660
ctccactgag gaccccgatg gcgagcaggc ccaggaggaa gaccaggctg attcagcctt
720
ccaactgctg tccttgggtc cccggctgag cctgtgtgag ggcagcccca tggtcaccct
780
gactgtggac aacgtgcacc tgggaacagg cgtgggtgtat gagtatgtga gcacggcagg
840

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cgtcagggtgc catgtgctgg agaagatcgt ggagccccgc ggctgcttcg gcctcaccgc  
 900  
 caagatcctc gaggcctttg ctgccaatga cagcgtcttc gtggagaact gcaggcggct  
 960  
 catggccctg agcagcgcca tcgtgacat gcccaacttt gagttccgca acatctgtga  
 1020  
 caccaagctg gagagcattg gccagaggat tgcctgctac caggagtgtt cagcccaact  
 1080  
 gaagagcagg gtcagcccac ccttcaaaca agccccctg gagccccacc cgctgtgtgg  
 1140  
 cctacttctg cccaccaat tgccacatca acctcatgga agtgcctac cccaagacca  
 1200  
 cccctcagt gggcagggtc ttcagcatcc gctttggacg caaacctcc ctcacgggc  
 1260  
 ttgaccggga gcaaggccac ctgaacccca tgcgtacac ccagcactgc atcaccacca  
 1320  
 tggctgtccc ctctggaag tgcttgcctg ctgcagaggg tgatcccaa ggccagggtc  
 1380  
 tccatgatgg cagcttcggg ccagccagtg ggacccttgg tcaggaagac cggggcctca  
 1440  
 gcttcctact caagcaggag gaccgtgaga tccaggatgc ctacctgcag ctcttcacca  
 1500  
 agctggatgt ggccctgaag gagatgaagc aatatgtcac ccagatcaac aggcgtgctg  
 1560  
 ccaccatcac agagcccacc tcgggtgggt cctgcgacgc atccttggtg gaggaggcct  
 1620  
 cctccctgcc cct  
 1633

&lt;210&gt; 1076

&lt;211&gt; 87

&lt;212&gt; PRT

&lt;213&gt; Homo sapiens

&lt;400&gt; 1076

His	Gln	Ala	Gly	Glu	His	Trp	Pro	Glu	Asp	Cys	Leu	Leu	Pro	Gly	Val
1				5				10						15	
Cys	Ser	Pro	Thr	Glu	Glu	Gln	Gly	Gln	Pro	Thr	Leu	Gln	Thr	Ser	Pro
			20					25					30		
Pro	Gly	Ala	Pro	Pro	Ala	Val	Trp	Pro	Thr	Ser	Ala	Pro	Pro	Ile	Ala
		35					40				45				
Thr	Ser	Thr	Ser	Trp	Lys	Cys	Pro	Thr	Pro	Arg	Pro	Pro	Pro	Gln	Trp
	50					55				60					
Ala	Gly	Pro	Ser	Ala	Ser	Ala	Leu	Asp	Ala	Asn	Pro	Pro	Ser	Ser	Ala
65					70				75					80	
Leu	Thr	Arg	Ser	Lys	Ala	Thr									
				85											

&lt;210&gt; 1077

&lt;211&gt; 419

&lt;212&gt; DNA

&lt;213&gt; Homo sapiens

&lt;400&gt; 1077

nnacgcgtaa cgcgccctcg cagcgccctc cacagcatgt cgaccaagtg gacgtgcaat  
 60  
 gcaaacgagg caacatgttt gcgcctcgcc ggagcaccct caccagcgga tgctttgttt  
 120  
 caccagagt ttacatatcc aatttttggga gaggctgagg caatttacgg ctacaacggc  
 180  
 ttgcacatga atcttgccct tgcgagcgcc agcctggtgc cgtcgctcga aatcacttac  
 240  
 cgcgctaaga atacgacgac gtcgcgtaaa gtagatgacg tggagcaggg tctgcgcgga  
 300  
 gtgctcccg cagatgtcgt tactcctgca gaacttgatg ctatcgttgc acgcgacggc  
 360  
 agggcggtcc gggcgcatth acgccgccgg gcaccaagat tgcgacgtac actcgcgcg  
 419

<210> 1078

<211> 139

<212> PRT

<213> Homo sapiens

<400> 1078

Xaa	Arg	Val	Thr	Arg	Leu	Ala	Thr	Arg	Leu	His	Ser	Met	Ser	Thr	Lys
1				5					10					15	
Trp	Thr	Cys	Asn	Ala	Asn	Glu	Ala	Thr	Cys	Leu	Arg	Leu	Ala	Gly	Ala
			20					25					30		
Pro	Ser	Pro	Ser	Asp	Ala	Leu	Phe	His	Pro	Glu	Phe	Thr	Tyr	Pro	Ile
			35				40					45			
Phe	Gly	Glu	Ala	Glu	Ala	Ile	Tyr	Gly	Tyr	Asn	Gly	Leu	His	Met	Asn
	50					55				60					
Leu	Ala	Phe	Ala	Ser	Gly	Ser	Leu	Val	Pro	Ser	Leu	Glu	Ile	Thr	Tyr
65				70					75					80	
Arg	Ala	Lys	Asn	Thr	Thr	Thr	Ser	Ala	Lys	Val	Asp	Asp	Val	Glu	Gln
			85					90					95		
Ala	Leu	Arg	Gly	Val	Leu	Pro	Pro	Asp	Val	Val	Thr	Pro	Ala	Glu	Leu
			100					105					110		
Asp	Ala	Ile	Val	Ala	Arg	Asp	Ala	Arg	Ala	Val	Arg	Ala	His	Leu	Arg
		115				120						125			
Arg	Arg	Ala	Pro	Arg	Leu	Arg	Arg	Thr	Leu	Ala					
	130					135									

<210> 1079

<211> 584

<212> DNA

<213> Homo sapiens

<400> 1079

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 agccttgagg aatgtacccc catgctgtgg catctacaat cggcctcctg ttcttactct  
 120  
 gctcaaaactg cttcccaagc cagcaggagg ggggaaccatg ctgcctgctg acctgggtag  
 180  
 ttctatttag gtcttgtgac acaacagtgg gcaagggtgat gccctctgtg accaaaagta  
 240

tttacccecaa gttccccccag gccctccctt tegtctgcaa agacacacat ctgtttcact  
 300  
 gtgtcttctg caaagacaca catctgtttc actgggggtt tctgcaaaga caccattttg  
 360  
 ttcccccttt taagggtttt cccctccatc ttgtctattt ttaaaaaaat aaaccgggtt  
 420  
 ccaggatag ccttcccccc cagatcaaga gcccatgtga aatgaggggg ccgacttgac  
 480  
 cacagcacct tgttcctttc tgtaatctag acacttctgc acaatagagg gcccccctt  
 540  
 caagggcaca ggccatgggtt tgtcctcagg ctccctccac gogt  
 584

<210> 1080  
 <211> 122  
 <212> PRT  
 <213> Homo sapiens

<400> 1080  
 Met Leu His Val Ser Ala Ser Gln Pro Trp Glu Met Tyr Pro His  
 1 5 10 15  
 Ala Val Ala Ser Thr Ile Gly Leu Leu Phe Leu Leu Cys Ser Asn Cys  
 20 25 30  
 Phe Pro Ser Gln Gln Gly Gly Glu Pro Cys Cys Leu Leu Thr Trp Val  
 35 40 45  
 Val Leu Phe Arg Ser Cys Asp Thr Thr Val Gly Lys Val Met Pro Ser  
 50 55 60  
 Val Thr Lys Ser Ile Tyr Pro Lys Phe Pro Gln Ala Leu Pro Phe Val  
 65 70 75 80  
 Cys Lys Asp Thr His Leu Phe His Cys Val Phe Cys Lys Asp Thr His  
 85 90 95  
 Leu Phe His Trp Gly Phe Leu Gln Arg His Pro Phe Val Ser Pro Phe  
 100 105 110  
 Lys Gly Phe Pro Leu His Leu Val Tyr Phe  
 115 120

<210> 1081  
 <211> 3077  
 <212> DNA  
 <213> Homo sapiens

<400> 1081  
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 60  
 gttcttaaac tgaacaagca tatcaaagag aatcataaaa acattccctt ggccctgaat  
 120  
 tatatccaca atgggaagaa atccaggggc ttaagccccc tatctcctgt ggccatagag  
 180  
 cagacatctc ttaagatgat gcaggcagta ggagggtcac ctgcacgtcc cactggagaa  
 240  
 tatatctgta atcaatgtgg tgctaagtac acatccctag acagctttca gactcaccta  
 300  
 aaaactcatc tcgacactgt gcttccaaaa ttgacctgtc ctacgtgcaa caaggaattc  
 360

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1980  
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2040

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&lt;210&gt; 1082

&lt;211&gt; 757

&lt;212&gt; PRT

&lt;213&gt; Homo sapiens

&lt;400&gt; 1082

Xaa Pro Val Val Glu Val Tyr Ser Cys Ser Tyr Cys Thr Asn Ser Pro  
 1 5 10 15  
 Ile Phe Asn Ser Val Leu Lys Leu Asn Lys His Ile Lys Glu Asn His  
 20 25 30  
 Lys Asn Ile Pro Leu Ala Leu Asn Tyr Ile His Asn Gly Lys Lys Ser  
 35 40 45  
 Arg Ala Leu Ser Pro Leu Ser Pro Val Ala Ile Glu Gln Thr Ser Leu  
 50 55 60  
 Lys Met Met Gln Ala Val Gly Gly Ala Pro Ala Arg Pro Thr Gly Glu  
 65 70 75 80  
 Tyr Ile Cys Asn Gln Cys Gly Ala Lys Tyr Thr Ser Leu Asp Ser Phe

[illegible]

```

      515                      520                      525
Lys Leu Asp Ile Asn Gly Leu Pro Tyr Gly Leu Cys Ala Gly Cys Val
530                      535                      540
Asn Leu Ser Lys Ser Ala Ser Pro Gly Ile Asn Val Pro Pro Gly Thr
545                      550                      555
Asn Arg Pro Gly Leu Gly Gln Asn Glu Asn Leu Ser Ala Ile Gly Glu
565                      570                      575
Arg Gln Gly Gly Gly Thr Glu Thr Arg Cys Ser Ser Cys Asn Val Lys
580                      585                      590
Phe Glu Ser Glu Ser Glu Leu Gln Asn His Ile Gln Thr Ile His Arg
595                      600                      605
Glu Leu Val Pro Asp Ser Asn Ser Thr Gln Leu Lys Thr Pro Gln Val
610                      615                      620
Ser Pro Met Pro Arg Ile Ser Pro Ser Gln Ser Asp Glu Lys Lys Thr
625                      630                      635
Tyr Gln Cys Ile Lys Cys Gln Met Val Phe Tyr Asn Glu Trp Asp Ile
645                      650                      655
Gln Val His Val Ala Asn His Met Ile Asp Glu Gly Leu Asn His Glu
660                      665                      670
Cys Lys Leu Cys Ser Gln Thr Phe Asp Ser Pro Ala Lys Leu Gln Cys
675                      680                      685
His Leu Ile Glu His Ser Phe Glu Gly Met Gly Gly Thr Phe Lys Cys
690                      695                      700
Pro Val Cys Phe Thr Val Phe Val Gln Ala Asn Lys Leu Gln Gln His
705                      710                      715
Ile Phe Ser Ala His Gly Gln Glu Asp Lys Ile Tyr Asp Cys Thr Gln
725                      730                      735
Cys Pro Gln Lys Phe Phe Phe Gln Thr Glu Leu Gln Asn His Thr Met
740                      745                      750
Thr Gln His Ser Ser
755

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&lt;210&gt; 1083

&lt;211&gt; 516

&lt;212&gt; DNA

&lt;213&gt; Homo sapiens

&lt;400&gt; 1083

```

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agatccgaat aacctgcccg ctcccgtgta gcccgtagaa gaggagaaga agtgaccgat
120
ccactgaccc cggttctgtc ggccaattgg gatgaagagc gcagttggaa gctgcttaac
180
tacgagcgac agggcggata caccggcctt cgtaaggctt tgacgatgcc gcctgacgac
240
gttgctctgc tgggtaagga cgctaacctg cgtggccgtg gtggcgccgg gttccccacc
300
ggcatgaagt ggtccttcgt gcctaaggac aatccaacc gcacctacct cgttgtcaac
360
ggcgacgagt ctgagccggg cactgcaag gacatgccgc tcatgatggc ctccccgcac
420
accctcgctg agggcgctcat cattgcctcc tacgccatca aggcccaagat ggccttcac
480

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tacatccgcg gtgaggtgct gcacgtcgtc cgacgc  
516

<210> 1084  
<211> 142  
<212> PRT  
<213> Homo sapiens

<400> 1084  
Ala Arg Gly Arg Gly Glu Glu Val Thr Asp Pro Leu Thr Pro Val Leu  
1 5 10 15  
Ser Ala Asn Trp Asp Glu Glu Arg Ser Trp Lys Leu Leu Asn Tyr Glu  
20 25 30  
Arg Gln Gly Gly Tyr Thr Gly Leu Arg Lys Ala Leu Thr Met Pro Pro  
35 40 45  
Asp Asp Val Val Ser Leu Val Lys Asp Ala Asn Leu Arg Gly Arg Gly  
50 55 60  
Gly Ala Gly Phe Pro Thr Gly Met Lys Trp Ser Phe Val Pro Lys Asp  
65 70 75 80  
Asn Pro Asn Pro Thr Tyr Leu Val Val Asn Gly Asp Glu Ser Glu Pro  
85 90 95  
Gly Thr Cys Lys Asp Met Pro Leu Met Met Ala Ser Pro His Thr Leu  
100 105 110  
Val Glu Gly Val Ile Ile Ala Ser Tyr Ala Ile Lys Ala Lys Met Ala  
115 120 125  
Phe Ile Tyr Ile Arg Gly Glu Val Leu His Val Val Arg Arg  
130 135 140

<210> 1085  
<211> 374  
<212> DNA  
<213> Homo sapiens

<400> 1085  
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aaatcgtaga gtgtctctga gctgcctagg gggctgtttg cgatcttgcg gacagtgtct  
120  
atatccacaa ggttcagctc cgccaggaga ctgtcgccga tcattttcag gaagttttct  
180  
ttgctgcgtt cgtagtcttg gtgcaggctg aagctgtagt cgctttttgta gatgtcccg  
240  
tagaagaact cgggcagggt gcctttcatg gcttcagga tgacgggttt gctcatccc  
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360  
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374

<210> 1086  
<211> 110  
<212> PRT  
<213> Homo sapiens

&lt;400&gt; 1086

```

Met Ile Arg Ser Ser Leu Val Tyr Pro Gly Val Leu Ser Gly His Gly
 1             5             10             15
Met Ser Lys Pro Val Ile Leu Glu Ala Met Lys Gly Thr Leu Pro Glu
                20             25             30
Phe Phe Tyr Arg Asp Ile Tyr Lys Ser Asp Tyr Ser Phe Asp Leu His
                35             40             45
Gln Asp Tyr Glu Arg Ser Lys Glu Asn Phe Leu Lys Met Ile Gly Asp
                50             55             60
Ser Leu Leu Ala Glu Leu Asn Leu Val Asp Ile Asp Thr Val Arg Lys
65             70             75             80
Ile Ala Asn Ser Pro Leu Gly Ser Ser Glu Thr Leu Tyr Asp Phe Glu
                85             90             95
Arg Met Thr His Met Glu Val Trp Leu Arg Glu Asn Tyr Val
                100             105             110

```

&lt;210&gt; 1087

&lt;211&gt; 423

&lt;212&gt; DNA

&lt;213&gt; Homo sapiens

&lt;400&gt; 1087

```

atgacgatcg tggccccacc accgcccacc gcgggcgcgc ccattagctt ccttgctcgac
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ggcatccacc cgacacgacct cggccaggtc ctgcacgacc acggcgtgag catccgggtg
120
nggcaccact gtgcctggcc catccaccgg agtctagggg tgcaatccac cgcccgtgca
180
tcgtttctact tctacaacac ttccccggaa gtggatgcgt tagcgctggc ggtgcggggc
240
gcccgggaat ttttcggagt gcattaggat tggctctgaac gtgaaccttg aatccatgta
300
ccaggaagtc atcctggacc actacaagaa tcccacgcac gcagggttga aggctccctt
360
tgatgccgaa gtgcaccatg tgaacccttc ctgcggtgac ganaccgtct ccgggtgaag
420
ctt
423

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&lt;210&gt; 1088

&lt;211&gt; 88

&lt;212&gt; PRT

&lt;213&gt; Homo sapiens

&lt;400&gt; 1088

```

Met Thr Ile Val Ala Pro Pro Pro Pro Thr Ala Gly Ala Ala Ile Ser
 1             5             10             15
Phe Leu Val Asp Gly Ile His Pro His Asp Leu Gly Gln Val Leu Asp
                20             25             30
Asp His Gly Val Ser Ile Arg Val Xaa His His Cys Ala Trp Pro Ile
                35             40             45
His Arg Ser Leu Gly Val Gln Ser Thr Ala Arg Ala Ser Phe Tyr Phe
50             55             60
Tyr Asn Thr Phe Pro Glu Val Asp Ala Leu Ala Ser Ala Val Arg Ala

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65          70          75          80
Ala Arg Glu Phe Phe Gly Val His
      85

<210> 1089
<211> 750
<212> DNA
<213> Homo sapiens

<400> 1089
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caggagatgg cctgtgagga taaaaccaag ggaggagag taggacagag gcagtacata
120
agagtggtaa gaatggggct cggggaagaa gcottacccc ttttcttctt taatttggcg
180
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240
tctgtaaaaa atgggggggt aattcagaag taccctcctt attgtcaggg ttttggggaa
300
gggagtaaaa agaaattggc ttgggaaaaa acttaataca gggcctgggc atgtaacaaa
360
tattcacaaa atgctagcag ttatcaccac agtggggagcc acagggagct ctgaggataa
420
gcagggatgt cgagggatgg gacagaactt gattgaaggc agacagacct ccaaattctt
480
gactcagaca gaatgatcac tgatccagcg agacgtcagg atcgagagga gtgtagcaag
540
gagtcaggag ggtgggcctg ccgcagtgtc gccccgactc tgttcagtaa catgaaggca
600
aacacagaag ggcattgtcg gagacacacg tgatcacgct agtgatgcag aggcagaccc
660
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720
atgtagacag ggataatgac aggaacgcgt
750

<210> 1090
<211> 103
<212> PRT
<213> Homo sapiens

<400> 1090
Met Val Thr Trp Val Glu Leu Lys Gly Arg Leu Thr Gln Glu Met Ala
1          5          10          15
Cys Glu Asp Lys Thr Lys Gly Gly Arg Val Gly Gln Arg Gln Tyr Ile
20          25          30
Arg Val Val Arg Met Gly Leu Gly Glu Glu Ala Leu Pro Leu Phe Phe
35          40          45
Phe Asn Leu Ala Lys Gly Leu Leu Gly Gln Gly His Pro Ser Leu Leu
50          55          60
Leu Gly Ala Ser Ile Phe Leu His Ser Val Lys Asn Gly Gly Val Ile
65          70          75          80
Gln Lys Tyr Pro Pro Tyr Cys Gln Gly Phe Gly Glu Gly Ser Lys Lys

```

85  
Lys Leu Ala Trp Glu Asn Thr  
100

90

95

<210> 1091  
<211> 438  
<212> DNA  
<213> Homo sapiens

<400> 1091  
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gcgattatta cggttatat gaacgaagtg tatttggtc aagtaggtaa tgaggggctt  
120  
catggctttg ccgaggcgag tcagcacttt ttgggacgac ctttaaaaga acttaatatc  
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240  
caccctaaac gtgctttatc acgcagaaat acggtattag caattttaaa aagccaagat  
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438

<210> 1092  
<211> 146  
<212> PRT  
<213> Homo sapiens

<400> 1092  
Thr Arg Lys Leu Thr Glu Val Val Met Ser Leu Leu Leu Glu Tyr His  
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Tyr Ser Lys Ser Ala Ile Ile Thr Ala Tyr Met Asn Glu Val Tyr Leu  
20 25 30  
Ala Gln Val Gly Asn Glu Gly Leu His Gly Phe Ala Glu Ala Ser Gln  
35 40 45  
His Phe Phe Gly Arg Pro Leu Lys Glu Leu Asn Ile Asp Glu Phe Ala  
50 55 60  
Leu Leu Val Gly Met Val Lys Gly Pro Ser Ile Tyr Asn Pro Glu Arg  
65 70 75 80  
His Pro Lys Arg Ala Leu Ser Arg Arg Asn Thr Val Leu Ala Ile Leu  
85 90 95  
Lys Ser Gln Asp Arg Leu Thr Glu Ser Asp Tyr Asn Ile Leu Arg Lys  
100 105 110  
Gln Pro Ile Arg Leu Ala Asp Lys His Gln Glu Arg Ser Val Tyr Gly  
115 120 125  
Asp Tyr Leu Asp Leu Val Ser Met Gln Leu Ser Arg Asp Phe Asp Arg  
130 135 140  
Cys Met  
145

<210> 1093  
 <211> 351  
 <212> DNA  
 <213> Homo sapiens

<400> 1093  
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 gatgccccga tgggtgccga agctgtccgt gaactgtgc acgctatcga cctggaacac  
 180  
 gagattggcc gtctgcgtga acaaattccg caaaccaact ccgaaaccaa gatcaagaag  
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 atgggtgctga ccgttctgcc gggtctgccg ccagatctgc gtccgctggt a  
 351

<210> 1094  
 <211> 117  
 <212> PRT  
 <213> Homo sapiens

<400> 1094  
 Arg Val Leu Tyr Phe Glu Ser Tyr Val Val Ile Asp Pro Gly Met Thr  
 1 5 10 15  
 Thr Leu Glu Lys Gly Gln Leu Leu Asn Asp Glu Gln Tyr Phe Glu Ala  
 20 25 30  
 Leu Glu Glu Phe Gly Asp Asp Phe Asp Ala Arg Met Gly Ala Glu Ala  
 35 40 45  
 Val Arg Glu Leu Leu His Ala Ile Asp Leu Glu His Glu Ile Gly Arg  
 50 55 60  
 Leu Arg Glu Gln Ile Pro Gln Thr Asn Ser Glu Thr Lys Ile Lys Lys  
 65 70 75 80  
 Leu Ser Lys Arg Leu Lys Leu Met Glu Ala Phe Gln Gly Ser Gly Asn  
 85 90 95  
 Leu Pro Glu Trp Met Val Leu Thr Val Leu Pro Val Leu Pro Pro Asp  
 100 105 110  
 Leu Arg Pro Leu Val  
 115

<210> 1095  
 <211> 619  
 <212> DNA  
 <213> Homo sapiens

<400> 1095  
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 120  
 agccagcggc agatccgcgg ggagatcgac agcctgcgcc aggagaagga etcactgctc  
 180

aagcagcgcc tggagatcga cggcaagctg aggcagggga gtctgctgtc ccccgaggag  
 240  
 gagcggagc tggtccagtt ggaatgagcc atcgagggcc tggatgctgc cattagagtat  
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 aagaatgagg ccattcacatg ccgccagcgg gtgcttcggg cctcagcctc gttgctgtcc  
 360  
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 420  
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 480  
 cacggcacgt gtggggaggt gtctcatggc agctgctcca gcggatatcc cgtttctctc  
 540  
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 600  
 ttttacttgt gaacctaaag  
 619

&lt;210&gt; 1096

&lt;211&gt; 195

&lt;212&gt; PRT

&lt;213&gt; Homo sapiens

&lt;400&gt; 1096

Xaa	Arg	Val	Arg	Ser	Ser	Gln	Ala	Leu	Asn	Glu	Asp	Ile	Val	Arg	Val
1				5					10					15	
Ser	Ser	Arg	Leu	Glu	His	Leu	Glu	Lys	Glu	Leu	Ser	Glu	Lys	Ser	Gly
			20					25					30		
Gln	Leu	Arg	Gln	Gly	Ser	Ala	Gln	Ser	Gln	Arg	Gln	Ile	Arg	Gly	Glu
			35				40					45			
Ile	Asp	Ser	Leu	Arg	Gln	Glu	Lys	Asp	Ser	Leu	Leu	Lys	Gln	Arg	Leu
	50					55				60					
Glu	Ile	Asp	Gly	Lys	Leu	Arg	Gln	Gly	Ser	Leu	Leu	Ser	Pro	Glu	Glu
	65				70				75					80	
Glu	Arg	Thr	Leu	Phe	Gln	Leu	Asp	Glu	Ala	Ile	Glu	Ala	Leu	Asp	Ala
			85					90					95		
Ala	Ile	Glu	Tyr	Lys	Asn	Glu	Ala	Ile	Thr	Cys	Arg	Gln	Arg	Val	Leu
			100				105						110		
Arg	Ala	Ser	Ala	Ser	Leu	Leu	Ser	Gln	Cys	Glu	Met	Asn	Leu	Met	Ala
			115				120					125			
Lys	Leu	Ser	Tyr	Leu	Ser	Ser	Ser	Glu	Thr	Arg	Ala	Leu	Leu	Cys	Lys
			130			135					140				
Tyr	Phe	Asp	Lys	Val	Gly	Gln	Gln	Pro	Met	Ala	Pro	Pro	Ala	Pro	Pro
					150				155					160	
His	Gly	Thr	Cys	Gly	Glu	Val	Ser	His	Gly	Ser	Cys	Ser	Ser	Gly	Tyr
				165				170						175	
Pro	Val	Ser	Ser	Gln	Thr	Gly	Gly	Gln	Asn	Gln	Asp	Gln	Leu	Ile	Cys
				180			185						190		
Arg	Ala	Ala													
															195

&lt;210&gt; 1097

&lt;211&gt; 5108

&lt;212&gt; DNA

&lt;213&gt; Homo sapiens

<400> 1097  
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acatacatga cattgaaaaa actatgtttt caatttaagc tatgtacata ccggggaaat  
120  
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180  
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300  
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360  
tatctgttta ttaaccaagc gaaccagtcc atcaggggagc aaaaaagggt ccgggctgta  
420  
ccagatgtat tggcgtaaaa ataataaacg atctcgaatt gctttcgtga tgataaagga  
480  
tgacaccatgt ttttggttgc ctctaggctg tacttcagtc tccgggtggcc actcgggtgtt  
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900  
gaaaagaggat atggtgataa gacagaggca accacaaagc tctatgacat ggtagaccaa  
960  
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1020  
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1080  
acgaggcaca ctggccggaa gcagcctcct gtcagttagt ctcatggag aacgttgctg  
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<210> 1098

<211> 1336

<212> PRT

<213> Homo sapiens

<400> 1098

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 Ser Ser Glu Glu Ala Arg Lys Leu Met Val Arg Leu Thr Arg His Thr  
 35 40 45  
 Gly Arg Lys Gln Pro Pro Val Ser Glu Ser His Trp Arg Thr Leu Leu  
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 Gln Asp Met Leu Thr Met Gln Gln Asn Val Tyr Thr Cys Leu Asp Ser  
 65 70 75 80  
 Asp Ala Cys Tyr Glu Ile Phe Thr Glu Ser Leu Leu Cys Ser Ser Arg  
 85 90 95  
 Leu Glu Asn Ile His Leu Ala Gly Gln Met Met His Cys Ser Ala Cys  
 100 105 110  
 Ser Glu Asn Pro Pro Ala Gly Ile Ala His Lys Gly Lys Pro His Tyr  
 115 120 125  
 Arg Val Ser Tyr Glu Lys Ser Ile Asp Leu Val Leu Ala Ala Ser Arg  
 130 135 140  
 Glu Tyr Phe Asn Ser Ser Thr Asn Leu Thr Asp Ser Cys Met Asp Leu  
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 Ala Arg Cys Cys Leu Gln Leu Ile Thr Asp Arg Pro Pro Ala Ile Gln  
 165 170 175  
 Glu Glu Leu Asp Leu Ile Gln Ala Val Gly Cys Leu Glu Glu Phe Gly  
 180 185 190  
 Val Lys Ile Leu Pro Leu Gln Val Arg Leu Cys Pro Asp Arg Ile Ser  
 195 200 205  
 Leu Ile Lys Glu Cys Ile Ser Gln Ser Pro Thr Cys Tyr Lys Gln Ser  
 210 215 220  
 Thr Lys Leu Leu Gly Leu Ala Glu Leu Leu Arg Val Ala Gly Glu Asn  
 225 230 235 240  
 Pro Glu Glu Arg Arg Gly Gln Val Leu Ile Leu Leu Val Glu Gln Ala  
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 Leu Arg Phe His Asp Tyr Lys Ala Ala Ser Met His Cys Gln Glu Leu  
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 Met Ala Thr Gly Tyr Pro Lys Ser Trp Asp Val Cys Ser Gln Leu Gly

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Phe	Ala	Leu	Thr	His	Cys	Pro	Pro	Ser	Ser	Ile	Glu	Leu	Leu	Leu	Ala
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Gln	Ile	His	His	Glu	Gly	Gly	Glu	Asn	Ile	Ser	Ala	Ser	Pro	Leu	Thr
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Glu	Lys	Gln	Gly	Cys	His	Pro	Phe	Tyr	Glu	Ser	Val	Ile	Ser	Asn	Pro
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Val	Glu	Ser	Phe	Ala	Glu	Val	Leu	Leu	Arg	Thr	Gly	Lys	Leu	Ala	Glu
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Pro	Leu	Tyr	Arg	Ala	Asp	Pro	Lys	Glu	Leu	Ile	Lys	Met	Val	Thr	Arg
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His	Val	Thr	Arg	His	Glu	His	Glu	Ala	Trp	Pro	Glu	Asp	Leu	Ile	Ser
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Leu	Thr	Lys	Gln	Leu	His	Cys	Tyr	Asn	Glu	Arg	Leu	Leu	Asp	Phe	Thr
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Arg	Tyr	Ser	Val	Ser	Arg	Trp	Glu	Val	Phe	Met	Thr	His	Leu	Glu	Phe
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Ala Asp Leu Gly Asn Cys Ala Ile Lys Pro Glu Thr His Ile Arg Leu
              740              745              750
Leu Lys Lys Phe Lys Val Val Ala Ser Gly Leu Asn Tyr Lys Lys Leu
              755              760              765
Thr Asp Glu Asn Met Ser Pro Leu Glu Ala Leu Glu Pro Val Leu Ser
              770              775              780
Ser Gln Asn Ile Leu Ser Ile Ser Lys Leu Val Pro Lys Ile Pro Glu
785              790              795              800
Lys Asp Gly Gln Met Leu Ser Pro Ser Ser Leu Tyr Thr Ile Trp Leu
              805              810              815
Gln Lys Leu Phe Trp Thr Gly Asp Pro His Leu Ile Lys Gln Val Pro
              820              825              830
Gly Ser Ser Pro Glu Trp Leu His Ala Tyr Asp Val Cys Met Lys Tyr
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Phe Asp Arg Leu His Pro Gly Asp Leu Ile Thr Val Val Asp Ala Val
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Thr Phe Ser Pro Lys Ala Val Thr Lys Leu Ser Val Glu Ala Arg Lys
865              870              875              880
Glu Met Thr Arg Lys Ala Ile Lys Thr Val Lys His Phe Ile Glu Lys
              885              890              895
Pro Arg Lys Arg Asn Ser Glu Asp Glu Ala Gln Glu Ala Lys Asp Ser
              900              905              910
Lys Val Thr Tyr Ala Asp Thr Leu Asn His Leu Glu Lys Ser Leu Ala
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930              935              940
Glu Gln Glu Thr Leu Gln Lys Tyr Ser His Leu Tyr Asp Leu Ser Arg
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Ser Glu Lys Glu Lys Leu His Asp Glu Ala Val Ala Ile Cys Leu Asp
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Gly Gln Pro Leu Ala Met Ile Gln Gln Leu Leu Glu Val Ala Val Gly
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Pro Leu Asp Ile Ser Pro Lys Asp Ile Val Gln Ser Ala Ile Met Lys
              995              1000              1005
Ile Ile Ser Ala Leu Ser Gly Gly Ser Ala Asp Leu Gly Gly Pro Arg
1010              1015              1020
Asp Pro Leu Lys Val Leu Glu Gly Val Val Ala Ala Val His Thr Ser
1025              1030              1035              1040
Val Asp Lys Gly Glu Glu Leu Val Ser Pro Glu Asp Leu Leu Glu Trp
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Leu Arg Pro Phe Cys Ala Asp Asp Ala Trp Pro Val Arg Pro Arg Ile
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His Val Leu Gln Ile Leu Gly Gln Ser Phe His Leu Thr Glu Glu Asp
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Ser Lys Leu Leu Val Phe Phe Arg Thr Glu Ala Ile Leu Lys Ala Ser
1090              1095              1100
Trp Pro Gln Arg Gln Val Asp Ile Ala Asp Ile Glu Asn Glu Glu Asn
1105              1110              1115              1120
Arg Tyr Cys Leu Phe Met Glu Leu Leu Glu Ser Ser His His Glu Ala
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Glu Phe Gln His Leu Val Leu Leu Leu Gln Ala Trp Pro Pro Met Lys

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Val Leu Lys Met Cys Arg Ser Leu Tyr Asn Thr Lys Gln Met Leu Pro
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Ala Glu Gly Val Lys Glu Leu Cys Leu Leu Leu Leu Asn Gln Ser Leu
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Leu Leu Pro Ser Leu Lys Leu Leu Glu Ser Arg Asp Glu His Leu
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His Glu Met Ala Leu Glu Gln Ile Thr Ala Val Thr Thr Val Asn Asp
          1235          1240          1245
Ser Asn Cys Asp Gln Glu Leu Leu Ser Leu Leu Leu Asp Ala Lys Leu
          1250          1255          1260
Leu Val Lys Cys Val Ser Thr Pro Phe Tyr Pro Arg Ile Val Asp His
          1265          1270          1275          1280
Leu Leu Ala Ser Leu Gln Gln Gly Arg Trp Asp Ala Glu Glu Leu Gly
          1285          1290          1295
Arg His Leu Arg Glu Ala Gly His Glu Ala Glu Ala Gly Ser Leu Leu
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Leu Arg Ala Ala Gln His Trp Val
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<210> 1099

<211> 309

<212> DNA

<213> Homo sapiens

<400> 1099

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<210> 1100

<211> 100

<212> PRT

<213> Homo sapiens

<400> 1100

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Leu Thr Ile Ala Ser Ile Leu Ala Leu Ala Gly Ala Leu Ile Leu Ala
      35                40                45
Tyr Ile Leu Ala Ser Arg Thr Lys Arg Tyr Val Arg Lys Leu Thr Glu
      50                55                60
Gly Gln Ser Thr Leu Leu Ser Glu Lys Ser Gln Leu Glu Glu Met Val
      65                70                75                80
Gln Leu Arg Thr Ala Glu Leu Glu Lys Ala Met Leu Ile Ala Lys Arg
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Glu Arg Ala Arg
      100

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 <212> DNA  
 <213> Homo sapiens

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<210> 1102  
 <211> 180  
 <212> PRT  
 <213> Homo sapiens

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<400> 1102
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Ala Tyr Asp Ala Asp Asn Val Ser Gly Thr Ile Val Val Arg Lys Ala
      20                25                30
His Glu Gly Glu His Leu Leu Thr Leu Asp Asp Thr Asp Arg Thr Leu
      35                40                45
Asp Pro Asp Asp Leu Val Ile Ala Asp Asp Ser Gly Ala Ile Gly Leu
      50                55                60
Ala Gly Val Met Gly Gly Ala Ala Thr Glu Val Thr Ala Glu Thr Thr
      65                70                75                80
Ser Ile Ile Leu Glu Gly Ala His Phe Asp Pro Met Thr Gly Ala Arg

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	85		90		95
Ala Tyr Arg Arg	His Lys Leu Gly Ser Glu Ala Ser Arg Arg Phe Glu				
	100		105		110
Arg Gly Val Asp Pro Ile Cys Ala His Thr Ala Ala Val Arg Ala Ala					
	115		120		125
Glu Leu Leu Ala Gln Tyr Gly Gly Ala Thr Val Gly Glu Pro Thr Val					
	130		135		140
Val Gly Glu Val Pro Glu Met Pro Arg Gln Thr Ile Asn Ala Asp Leu					
	145		150		155
Pro Asn Arg Ile Leu Gly Thr Lys Val Pro Thr Glu Glu Val Ile Glu					
	165		170		175
Ile Leu Thr Arg					
	180				

&lt;210&gt; 1103

&lt;211&gt; 537

&lt;212&gt; DNA

&lt;213&gt; Homo sapiens

&lt;400&gt; 1103

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120
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180
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420
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480
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537

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&lt;210&gt; 1104

&lt;211&gt; 112

&lt;212&gt; PRT

&lt;213&gt; Homo sapiens

&lt;400&gt; 1104

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Ser Pro Leu Tyr Trp Val Gly Ser Gly Gly Glu Thr His Ala Asp Lys	
	35 40 45
Gly Arg Ser Gly Cys Arg Arg Ala Gly Ile His Arg Asn Ser Pro Tyr	
	50 55 60
Cys Gly Tyr Val His Gln Cys Gly Gly Gly Arg Arg Gln Ala Gly Met	

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65              70              75              80
Gly Ala Ala Glu Gly Val Pro Gly Leu Gly Tyr Leu Arg Glu Gly
      85              90              95
Phe Val Cys Ser Gly Glu Leu Gly Glu Ala Ala Gly Pro Ala Ala Ala
      100              105              110

<210> 1105
<211> 448
<212> DNA
<213> Homo sapiens

<400> 1105
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120
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300
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420
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448

<210> 1106
<211> 149
<212> PRT
<213> Homo sapiens

<400> 1106
Arg Asp Leu Gly Gln His Val His Val Gly Gly Arg Leu Leu Ala Thr
1      5      10      15
Asp Ser Gln Pro Trp Gly Gly Pro Phe Arg Gly Cys Leu Gln Asp Leu
20     25     30
Arg Leu Asp Gly Cys His Leu Pro Phe Phe Pro Leu Pro Leu Asp Asn
35     40     45
Ser Ser Gln Pro Ser Glu Leu Gly Gly Arg Gln Ser Trp Asn Leu Thr
50     55     60
Ala Gly Cys Val Ser Glu Asp Met Cys Ser Pro Asp Pro Cys Phe Asn
65     70     75     80
Gly Gly Thr Cys Leu Val Thr Trp Asn Asp Phe His Cys Thr Cys Pro
85     90     95
Ala Asn Phe Thr Gly Pro Thr Cys Ala Gln Gln Leu Trp Cys Pro Gly
100    105    110
Gln Pro Cys Leu Pro Pro Ala Thr Cys Glu Glu Val Pro Asp Gly Phe
115    120    125
Val Cys Val Ala Glu Ala Thr Phe Arg Glu Gly Pro Pro Ala Ala Phe
130    135    140
Ser Gly His Asn Ala

```

145

&lt;210&gt; 1107

&lt;211&gt; 618

&lt;212&gt; DNA

&lt;213&gt; Homo sapiens

&lt;400&gt; 1107

acgcgttgat gaagtacctg ccacgcttca gcaatgacgg ctcggtgaac ggcttctata  
 60  
 tctttgttat cgatgagacc gaacgcaaac tcaccgaaga ggccctgcgc cacctcaacg  
 120  
 agaacctcga agagcgcgtc gccacgcgca cacaggcgct ggctgaagcc aaccaacgcc  
 180  
 tggcaaaaca aaatgttcaa acgcaagcgc gccgaagacg cgctgcgtca cgcgcagaaa  
 240  
 atggaagcgg gggggccagct caccggcggc atcgcccattg atttcaacaa catgctgacc  
 300  
 gggattatcg gcagcctgga cttgatgcag cgctacatcn aggcggggcg cagcgacgaa  
 360  
 atcgccgcnc ttactgacgc cgccgtatcg tccgcccacg gcgcggcgcg cctcaccat  
 420  
 cggctgctgg cgttctcgcg ccgccagtcg ctggcccccc gcccgctgga cccaaccag  
 480  
 ctggtagcgt ccttgaggga tctgttccag cgaaccaaag gcgcgcatac cagctcaaa  
 540  
 gtgcaactgg gccgcgatat ctggcccgtg aataccgatg ccagccagtt ggaaaacgcc  
 600  
 ctgctcaacc tggcgatc  
 618

&lt;210&gt; 1108

&lt;211&gt; 182

&lt;212&gt; PRT

&lt;213&gt; Homo sapiens

&lt;400&gt; 1108

Met	Arg	Pro	Asn	Ala	Asn	Ser	Pro	Lys	Arg	Pro	Cys	Ala	Thr	Ser	Thr
1			5					10					15		
Arg	Thr	Ser	Lys	Ser	Ala	Ser	Pro	Ser	Ala	His	Arg	Arg	Trp	Leu	Lys
			20					25				30			
Pro	Thr	Asn	Ala	Trp	Gln	Asn	Lys	Met	Phe	Lys	Arg	Lys	Arg	Ala	Glu
		35				40					45				
Asp	Ala	Leu	Arg	His	Ala	Gln	Lys	Met	Glu	Ala	Gly	Gly	Gln	Leu	Thr
		50				55					60				
Gly	Gly	Ile	Ala	His	Asp	Phe	Asn	Asn	Met	Leu	Thr	Gly	Ile	Ile	Gly
65				70					75				80		
Ser	Leu	Asp	Leu	Met	Gln	Arg	Tyr	Ile	Xaa	Ala	Gly	Arg	Ser	Asp	Glu
			85						90				95		
Ile	Gly	Arg	Leu	Thr	Asp	Ala	Ala	Val	Ser	Ser	Ala	His	Arg	Ala	Ala
			100					105				110			
Ala	Leu	Thr	His	Arg	Leu	Leu	Ala	Phe	Ser	Arg	Arg	Gln	Ser	Leu	Ala
		115				120						125			
Pro	Arg	Pro	Leu	Asp	Pro	Asn	Gln	Leu	Val	Ala	Ser	Leu	Glu	Asp	Leu

```

      130              135              140
Phe Gln Arg Thr Lys Gly Ala His Ile Thr Leu Lys Val Gln Leu Gly
145              150              155              160
Arg Asp Ile Trp Pro Val Asn Thr Asp Ala Ser Gln Leu Glu Asn Ala
      165              170              175
Leu Leu Asn Leu Ala Ile
      180

```

```

<210> 1109
<211> 325
<212> DNA
<213> Homo sapiens

```

```

<400> 1109
accggtgagc atcagggagg caccatgcag acgactctcc catccagtct caagccgtcc
60
agcctcaaga tcgtcgacac gctggggggc atcctcgtgc ccctggatca ggtgccccgat
120
cccgtttttc ccagaagat ggtggggagac gggatctccc tggaccccat ctcaaacgaa
180
ttgctggcgc cggctgcgcg caccgtgacc cagctccaca acgcccacca cgcgctcacg
240
atcacgaccc cggaaggcat cgaggttctg gtccatatcg gactggatac cgtgatgctg
300
cgcggggaca gctatcccc ccccn
325

```

```

<210> 1110
<211> 108
<212> PRT
<213> Homo sapiens

```

```

<400> 1110
Thr Gly Glu His Gln Gly Gly Thr Met Gln Thr Thr Leu Pro Ser Ser
1      5      10      15
Leu Lys Pro Ser Ser Leu Lys Ile Val Ala Pro Leu Gly Gly Ile Leu
20      25      30
Val Pro Leu Asp Gln Val Pro Asp Pro Val Phe Ala Gln Lys Met Val
35      40      45
Gly Asp Gly Ile Ser Leu Asp Pro Ile Ser Asn Glu Leu Leu Ala Pro
50      55      60
Val Ala Gly Thr Val Thr Gln Leu His Asn Ala His His Ala Leu Thr
65      70      75      80
Ile Thr Thr Pro Glu Gly Ile Glu Val Leu Val His Ile Gly Leu Asp
85      90      95
Thr Val Met Leu Arg Gly Asp Ser Tyr Pro Pro Pro
100      105

```

```

<210> 1111
<211> 385
<212> DNA
<213> Homo sapiens

```

```

<400> 1111

```

```

nnacgcgtcg ccccggtgctg cctggcagtg ggagaagagc atgaccttac cgagctcgcg
60
actgaaactcg tcaacgcgcg ctagagccgg gttgacatgg tggaaacccg tggcgaattc
120
gcagtacgtg gcggcatcgt cgacgtcttc ccaccggtgc tagaacaccc gggtccgtatc
180
gattttttttg gtgacgagat cgaggaaatg acctccttcg cggtagccga ccagcgatcc
240
accgacgaga ctcaccaaga actgatctgc gctccttgcc gtgagctcat cctcaccgac
300
gaggtaactgt cccgagccaa ggctttgctg accgaccatc ccgaattagc tgacatgttg
360
gagcggatcg gcaacggtca agctt
385

```

```

<210> 1112
<211> 128
<212> PRT
<213> Homo sapiens

```

```

<400> 1112
Xaa Arg Val Ala Pro Val Arg Leu Ala Val Gly Glu Glu His Asp Leu
1 5 10 15
Thr Glu Leu Ala Thr Glu Leu Val Asn Ala Ala Tyr Ser Arg Val Asp
20 25 30
Met Val Glu Arg Arg Gly Glu Phe Ala Val Arg Gly Gly Ile Val Asp
35 40 45
Val Phe Pro Pro Val Leu Glu His Pro Val Arg Ile Asp Phe Phe Gly
50 55 60
Asp Glu Ile Glu Glu Met Thr Ser Phe Ala Val Ala Asp Gln Arg Ser
65 70 75 80
Thr Asp Glu Thr His Gln Glu Leu Ile Cys Ala Pro Cys Arg Glu Leu
85 90 95
Ile Leu Thr Asp Glu Val Arg Ser Arg Ala Lys Ala Leu Leu Thr Asp
100 105 110
His Pro Glu Leu Ala Asp Met Leu Glu Arg Ile Gly Asn Gly Gln Ala
115 120 125

```

```

<210> 1113
<211> 400
<212> DNA
<213> Homo sapiens

```

```

<400> 1113
nnnccgaccga tgagcgatcg cgaacccgctc aacctgggat acccctacgt cgagtctttc
60
cactcggact tctcggggac cggcgggagtc gatcagaccg accgttctac caatatcgac
120
gagcacacca tcgaggagat gcatcagatc gectcgcgtt accccgactc ccgttcggcg
180
ttgctgcgca tectgcacct gggtcagtcg gtggacggac gcatctcgcg ggctcggtatt
240
gagactgcgg ctgaagtgtc cggcattacc accgcccagg tatccggggg ggcgaccttc
300

```

tacaccatgt ataagaagca ccctgcgggc cagcatcaca tcggtgtctg caccacggcg  
 360  
 ctgtgcgcgc tcatgggtgg cgaggaggtg cttgcccgtn  
 400

<210> 1114  
 <211> 133  
 <212> PRT  
 <213> Homo sapiens

<400> 1114  
 Xaa Arg Pro Met Ser Asp Arg Glu Pro Val Asn Leu Gly Tyr Pro Tyr  
 1 5 10 15  
 Val Glu Ser Phe His Ser Asp Phe Ser Gly Thr Gly Gly Val Asp Gln  
 20 25 30  
 Thr Asp Arg Ser Thr Asn Ile Asp Glu His Thr Ile Glu Glu Met His  
 35 40 45  
 Gln Ile Ala Ser Arg Tyr Pro Asp Ser Arg Ser Ala Leu Leu Pro Ile  
 50 55 60  
 Leu His Leu Val Gln Ser Val Asp Gly Arg Ile Ser Pro Val Gly Ile  
 65 70 75 80  
 Glu Thr Ala Ala Glu Val Leu Gly Ile Thr Thr Ala Gln Val Ser Gly  
 85 90 95  
 Val Ala Thr Phe Tyr Thr Met Tyr Lys Lys His Pro Ala Gly Gln His  
 100 105 110  
 His Ile Gly Val Cys Thr Thr Ala Leu Cys Ala Val Met Gly Gly Glu  
 115 120 125  
 Glu Val Leu Ala Arg  
 130

<210> 1115  
 <211> 402  
 <212> DNA  
 <213> Homo sapiens

<400> 1115  
 tctccgactg cacagattag agaaaggact gcgatgacca ttccgaccac tcatgttggt  
 60  
 tccttgcccc gcacccccga gctgacgcag gcgaatcgtg cgcgccgtga ggggttcgct  
 120  
 ggcgagcgtg acttcacgtc gctgctgcag gatcaggttg acggcggtgt gaagcgctag  
 180  
 gctgagattg gcctggatat cgtcaatgac ggcgagtacg gtcacgcgat gcttgacacg  
 240  
 gttgattacg gcgcgtggtg gacgtattcc atctctcgtt tcggcgggct gtcctttgag  
 300  
 gacgtgcagc gttttgatgt gcgtcccccg gctggccgtg acggctgcct gtcctttcgt  
 360  
 tcgttcgctg agcgcgcgca ctggcagcgt ttccggacgc gt  
 402

<210> 1116  
 <211> 134  
 <212> PRT

&lt;213&gt; Homo sapiens

&lt;400&gt; 1116

```

Ser Pro Thr Ala Gln Ile Arg Glu Arg Thr Ala Met Thr Ile Arg Thr
 1           5           10           15
Thr His Val Gly Ser Leu Pro Arg Thr Pro Glu Leu Ile Glu Ala Asn
           20           25           30
Arg Ala Arg Arg Glu Gly Ser Leu Gly Glu Ala Asp Phe Thr Ser Leu
           35           40           45
Leu Gln Asp Gln Val Asp Gly Val Val Lys Arg Gln Ala Glu Ile Gly
           50           55           60
Leu Asp Ile Val Asn Asp Gly Glu Tyr Gly His Ala Met Leu Asp Thr
65           70           75           80
Val Asp Tyr Gly Ala Trp Trp Thr Tyr Ser Ile Ser Arg Phe Gly Gly
           85           90           95
Leu Ser Phe Glu Asp Val Gln Arg Phe Asp Val Arg Pro Pro Ala Gly
           100          105          110
Arg Asp Gly Arg Leu Ser Phe Ser Ser Phe Ala Glu Arg Arg Asp Trp
           115          120          125
Gln Arg Phe Arg Thr Arg
130

```

&lt;210&gt; 1117

&lt;211&gt; 307

&lt;212&gt; DNA

&lt;213&gt; Homo sapiens

&lt;400&gt; 1117

```

ggcgccgggtc ttgccttggtc tggaagtggc atgcagacct tgggtcgaggaa cccgctgggt
60
gacccctacc tgctaggtgt atcggtggc gcaagtgtgg gagcaaccgc agtcacgtc
120
ttggggatgt tcaattcgtg gggaactcac cgactcactc ttggtgcctc tgtagggggc
180
ttggcggcag ctgcattggt ctatctcatt tccatggcgc aaggaggcat gacgcccgtt
240
cggttggtgc tgtcgggcgt ggtgttgtcc tcggcggtct cgcgttggcg agtttcctcg
300
tcttttgg
307

```

&lt;210&gt; 1118

&lt;211&gt; 102

&lt;212&gt; PRT

&lt;213&gt; Homo sapiens

&lt;400&gt; 1118

```

Gly Ala Gly Leu Ala Leu Ala Gly Ser Gly Met Gln Thr Leu Val Arg
 1           5           10           15
Asn Pro Leu Ala Asp Pro Tyr Leu Leu Gly Val Ser Ala Gly Ala Ser
           20           25           30
Val Gly Ala Thr Ala Val Ile Ala Leu Gly Met Phe Thr Ser Trp Gly
           35           40           45
Thr His Arg Leu Thr Leu Gly Ala Leu Val Gly Ala Leu Ala Ala Ala

```

```

      50              55              60
Ala Leu Val Tyr Leu Ile Ser Met Ala Gln Gly Gly Met Thr Pro Leu
65              70              75              80
Arg Leu Val Leu Ser Gly Val Val Leu Ser Ser Ala Phe Ser Arg Trp
      85              90              95
Arg Val Ser Ser Ser Phe
      100

```

```

<210> 1119
<211> 353
<212> DNA
<213> Homo sapiens

```

```

<400> 1119
cgcgtccttg agatgcttga gcaggtcggg attgaggatc cagccagggt gatggattcc
60
tatccgcgac aactgtccgg tggccagcgt caacgggttc tgcttgccat ggcgttggtg
120
aactcgccgg atctgctcat ttgtgacgag ccgacgaccg ccttggaagt cacgggtgcg
180
tctcaggtac tggcgactat cgtatgaggtg cttgactcgg ttggtgccgc atgcctattt
240
attacccacg atttggcggg tgtctcgcac atctgccggg agcttatcgt gatgacgtcg
300
ggcaaggctg ttgaagccgg atcagcgcgt gatgtgttat ctcaccctga tca
353

```

```

<210> 1120
<211> 117
<212> PRT
<213> Homo sapiens

```

```

<400> 1120
Arg Val Leu Glu Met Leu Glu Gln Val Gly Ile Glu Asp Pro Ala Arg
1              5              10              15
Val Met Asp Ser Tyr Pro His Gln Leu Ser Gly Gly Gln Arg Gln Arg
20              25              30
Val Leu Leu Ala Met Ala Leu Val Asn Ser Pro Asp Leu Leu Ile Cys
35              40              45
Asp Glu Pro Thr Thr Ala Leu Asp Val Thr Val Gln Ser Gln Val Leu
50              55              60
Ala Thr Ile Asp Glu Val Leu Asp Ser Val Gly Ala Ala Cys Leu Phe
65              70              75              80
Ile Thr His Asp Leu Ala Val Val Ser His Ile Cys Arg Glu Leu Ile
85              90              95
Val Met Thr Ser Gly Lys Val Val Glu Ala Gly Ser Ala Arg Asp Val
100             105             110
Leu Ser His Pro Asp
115

```

```

<210> 1121
<211> 406
<212> DNA
<213> Homo sapiens

```

<400> 1121  
 tgatcaccca tgctccactc gaccgcgcgc tcgacgatgc gacggctgag acgatgctcg  
 60  
 cccagggcac ggtgttcac cgcacctga cgatgatgaa aggcgtcgcc gcgaatctca  
 120  
 ccgcagcggg cgttcccggg gtgagctatg cacacgccc cagagacacg cgcgcgatgc  
 180  
 atgcgcggg cgttcgggtc ctggccggca ccgacgccta catcgggtcc ttcacacggg  
 240  
 catcgccgcc atacggcgag agcatgcacg acgaagacgc ctacatcggg ctctcgaac  
 300  
 gggcaatgcc gccatacggc gagagcatgc acgacgaact cgctctgctc gtggacgcc  
 360  
 gcctgtcaac agccgaagcg ctgcgcgctg ccacctcgac gggcgc  
 406

<210> 1122  
 <211> 117  
 <212> PRT  
 <213> Homo sapiens

<400> 1122  
 Met Leu Ala Gln Gly Thr Val Phe Ile Pro Thr Leu Thr Met Met Lys  
 1 5 10 15  
 Gly Val Ala Ala Asn Leu Thr Ala Ala Gly Val Pro Gly Val Ser Tyr  
 20 25 30  
 Ala His Ala His Glu Ser Thr Arg Ala Met His Ala Ala Gly Val Pro  
 35 40 45  
 Val Leu Ala Gly Thr Asp Ala Tyr Ile Gly Ser Phe Thr Arg Ala Ser  
 50 55 60  
 Pro Pro Tyr Gly Glu Ser Met His Asp Glu Asp Ala Tyr Ile Gly Leu  
 65 70 75 80  
 Leu Glu Arg Ala Met Pro Pro Tyr Gly Glu Ser Met His Asp Glu Leu  
 85 90 95  
 Ala Leu Leu Val Asp Ala Gly Leu Ser Thr Ala Glu Ala Leu Arg Ala  
 100 105 110  
 Ala Thr Ser Thr Gly  
 115

<210> 1123  
 <211> 337  
 <212> DNA  
 <213> Homo sapiens

<400> 1123  
 gccggcgatg cgttcattaa ggcctaagat gcgcgcacgc ctccccgctt tctcgcctc  
 60  
 cgcctccacc gcccttgccg cagcggggat ggtgggggtgc tcgtccgagg gggcatcgcc  
 120  
 aagcgaatgc tcccctgttg atattgcgc agtgcgcgag gccctgcgcg attcgctcgc  
 180  
 taaggcgaag ctgcaccgc actccaccaa cgaggatgaa cactcctttt ccattgctcta  
 240

ccgcgcgcaa gataaggagc aggtcagctt gctggggacg aagtatgagg ccgacgggtgc  
 300  
 acccgtctgc cccgatgacc ccaatgaggc agcgcgc  
 337

<210> 1124  
 <211> 110  
 <212> PRT  
 <213> Homo sapiens

<400> 1124  
 Met Arg Ser Leu Arg Pro Lys Met Arg Arg Arg Leu Pro Ala Phe Leu  
 1 5 10 15  
 Ala Leu Ala Ser Thr Ala Leu Ala Ala Gly Met Val Gly Cys Ser  
 20 25 30  
 Ser Glu Gly Ala Ser Pro Ser Glu Cys Ser Pro Val Asp Ile Ala Ala  
 35 40 45  
 Val Arg Glu Ala Leu Pro His Ser Leu Ala Lys Ala Lys Leu Asp Pro  
 50 55 60  
 His Ser Thr Asn Glu Asp Glu His Ser Phe Ser Met Leu Tyr Arg Ala  
 65 70 75 80  
 Gln Asp Lys Glu Gln Val Ser Leu Leu Gly Thr Lys Tyr Glu Ala Asp  
 85 90 95  
 Gly Ala Pro Val Cys Pro Asp Asp Pro Asn Glu Ala Ala Arg  
 100 105 110

<210> 1125  
 <211> 555  
 <212> DNA  
 <213> Homo sapiens

<400> 1125  
 nncttgaatc gaatcggcat tgcgtctaaa catgacgttg agacactctc tgctaagctc  
 60  
 gaagagctga cggcattgct agaactgtgc gcgcgtaaac actaaggaga catcgggatg  
 120  
 gctgttaaaa agactactca gaaagaaggc agctcgttga tcgggggaagt tgaaaaatat  
 180  
 tcccgtaaaa tctggcttgc tggtttaggc gtgtactcga aggttagcag tgacggcggc  
 240  
 aaatacttcg agacgttggt caaggacggc gagaaggccg agaagttgac caagagccca  
 300  
 gtcggttaaa aagtagaggc ggcaaaagcg agcgccggtt ctgcgaaatc gagcatttgc  
 360  
 gataacctgg gcaagttgga agagactttc gacaagcgtc tcaacagtgc tatttcgcga  
 420  
 ttggggctgc ccagcaaagc ggaactgaag acgctgcaca gcaaggtcga taccttgacc  
 480  
 aagcaaatcg aaaaactcac cggtgccaaa gtggcccccg ctaaaacggc agccgctaaa  
 540  
 cctgctgcca agctt  
 555

<210> 1126

&lt;211&gt; 146

&lt;212&gt; PRT

&lt;213&gt; Homo sapiens

&lt;400&gt; 1126

```

Met Ala Val Lys Lys Thr Thr Gln Lys Glu Gly Ser Ser Trp Ile Gly
 1             5             10             15
Glu Val Glu Lys Tyr Ser Arg Lys Ile Trp Leu Ala Gly Leu Gly Val
      20             25             30
Tyr Ser Lys Val Ser Ser Asp Gly Gly Lys Tyr Phe Glu Thr Leu Val
      35             40             45
Lys Asp Gly Glu Lys Ala Glu Lys Leu Thr Lys Ser Pro Val Gly Lys
      50             55             60
Lys Val Glu Ala Ala Lys Ala Ser Ala Gly Ser Ala Lys Ser Ser Ile
      65             70             75             80
Ser Asp Thr Trp Gly Lys Leu Glu Glu Thr Phe Asp Lys Arg Leu Asn
      85             90             95
Ser Ala Ile Ser Arg Leu Gly Val Pro Ser Lys Ala Glu Leu Lys Thr
      100            105            110
Leu His Ser Lys Val Asp Thr Leu Thr Lys Gln Ile Glu Lys Leu Thr
      115            120            125
Gly Ala Lys Val Ala Pro Ala Lys Thr Ala Ala Ala Lys Pro Ala Ala
      130            135            140
Lys Leu
145

```

&lt;210&gt; 1127

&lt;211&gt; 352

&lt;212&gt; DNA

&lt;213&gt; Homo sapiens

&lt;400&gt; 1127

```

ccgaccgcg tactcgtggt cgggtgccga gtgatgggtg cagcacacgc acacgcgctc
 60
cgcggtgccc tccaggcagt cgtgtgcggc gtggtcgacc tgcaggagcg agcagcgcaa
 120
tcactcgctt cggaagtggg cgtaccgggg ttaccgcacc tgggtgaagg gatcgagtcg
 180
accgctccgg acgccgcggt catcgccacg ccggactcgg ctcaccgcca accggctgag
 240
accgccatcg acgcggcgct tgccgtcctg gtcgagaaac cgctcgccac gaccgtcgat
 300
gacgcgcaag cgatcgtgct ccgcgctgaa cgggcccggc tccgtctcat ga
 352

```

&lt;210&gt; 1128

&lt;211&gt; 117

&lt;212&gt; PRT

&lt;213&gt; Homo sapiens

&lt;400&gt; 1128

```

Pro Asp Arg Val Leu Val Val Gly Ala Gly Val Met Gly Ala Ala His
 1             5             10             15
Ala His Ala Leu Arg Gly Ser Leu Gln Ala Val Val Cys Gly Val Val

```

```

                20                25                30
Asp Leu Gln Glu Arg Ala Ala Gln Ser Leu Ala Ser Glu Val Gly Val
      35                40                45
Pro Gly Phe Thr Asp Leu Val Lys Ala Ile Glu Ser Thr Ala Pro Asp
      50                55                60
Ala Ala Val Ile Ala Thr Pro Asp Ser Ala His Arg Gln Pro Ala Glu
      65                70                75                80
Thr Ala Ile Asp Ala Gly Leu Ala Val Leu Val Glu Lys Pro Leu Ala
      85                90                95
Thr Thr Val Asp Asp Ala Glu Ala Ile Val Leu Arg Ala Glu Arg Ala
      100                105                110
Gly Val Arg Leu Met
      115

```

&lt;210&gt; 1129

&lt;211&gt; 336

&lt;212&gt; DNA

&lt;213&gt; Homo sapiens

&lt;400&gt; 1129

```

ntggcagccc tggaggagccc gatggtggac ctggacggcg agctgccttt cgtgcggccc
60
ctgccccaca ttgccgtgct ccaggacgag ctgccgcaac tcttccagga tgacgacgtc
120
ggggccgcgat aggaagagggc agagtgtcgg gccgaacaca cgctcacaga gaagtttgtc
180
tgccctggatg actcctttgg ccatgactgc agcttgacct gtgatgactg caggaacgga
240
gggacctgcc tcctgggcct ggatggctgg gattgccccg agggctggac tgggctcatc
300
tgcaatgaga cttggtcctc gggctgcatg gatatt
336

```

&lt;210&gt; 1130

&lt;211&gt; 112

&lt;212&gt; PRT

&lt;213&gt; Homo sapiens

&lt;400&gt; 1130

```

Xaa Ala Ala Leu Glu Glu Pro Met Val Asp Leu Asp Gly Glu Leu Pro
      1                5                10                15
Phe Val Arg Pro Leu Pro His Ile Ala Val Leu Gln Asp Glu Leu Pro
      20                25                30
Gln Leu Phe Gln Asp Asp Asp Val Gly Ala Asp Glu Glu Glu Ala Glu
      35                40                45
Leu Arg Gly Glu His Thr Leu Thr Glu Lys Phe Val Cys Leu Asp Asp
      50                55                60
Ser Phe Gly His Asp Cys Ser Leu Thr Cys Asp Asp Cys Arg Asn Gly
      65                70                75                80
Gly Thr Cys Leu Leu Gly Leu Asp Gly Trp Asp Cys Pro Glu Gly Trp
      85                90                95
Thr Gly Leu Ile Cys Asn Glu Thr Trp Ser Ser Gly Cys Met Asp Ile
      100                105                110

```

<210> 1131  
 <211> 672  
 <212> DNA  
 <213> Homo sapiens

<400> 1131  
 gcgttggtgg tgctcatggc ccgggaaaat ccgctggatc aatacctett tgagcacecc  
 60  
 gaattattgt tctcgtccctc ggtggaatcg actgtgttgc acccgataaa cccgatgtgtg  
 120  
 ctccggccccg acgtggccgc ggccgcccag gaggcatacc tctccccctgc ggacgaagag  
 180  
 ttttacgggt cgccctttgc cgggatatgc aaaacgctga caggccagaa cgtactgcga  
 240  
 cgtccgggaa atcggctgtt ctggactcgt ccggaacggg ctgtcgacgc catcgacctg  
 300  
 cgatcggcgg caggcaaaag gattgacatt atcgacgtgt ccaccgggag ggtcatcggg  
 360  
 gtagtgcagc aagccgccgc agaccgtacc gtgcatccag gcgcgggtgta cctgcatcag  
 420  
 ggggatcagt ggctggtcga cgaatacaac ccggtcgagc accacgcctt ggtgcaccag  
 480  
 gacctgccgc gatattggac tcaaccgcag tcagcgtcga cggtgagaat ccttcggggag  
 540  
 gagagacgct gcgccttggtg tcccgatat gtggcgtgcy ggcagggtgga actgacagag  
 600  
 caagttgttg ggtatctgcy tcgcgacgaa ttcaccaatg atgtgttgta ctgcgtggcc  
 660  
 ctcgagatgc cc  
 672

<210> 1132  
 <211> 224  
 <212> PRT  
 <213> Homo sapiens

<400> 1132  
 Ala Leu Val Val Leu Met Ala Arg Glu Asn Pro Leu Asp Gln Tyr Leu  
 1 5 10 15  
 Phe Glu His Pro Glu Leu Leu Phe Ser Ser Ser Val Glu Ser Thr Val  
 20 25 30  
 Leu His Pro Asp Asn Pro Tyr Val Leu Gly Pro His Val Ala Ala Ala  
 35 40 45  
 Ala Gln Glu Ala Tyr Leu Ser Pro Ala Asp Glu Glu Phe Tyr Gly Ser  
 50 55 60  
 Ala Phe Ala Gly Ile Cys Lys Thr Leu Thr Gly Gln Asn Val Leu Arg  
 65 70 75 80  
 Arg Arg Gly Asn Arg Leu Phe Trp Thr Arg Pro Glu Arg Ala Val Asp  
 85 90 95  
 Ala Ile Asp Leu Arg Ser Ala Ala Gly Lys Gly Ile Asp Ile Ile Asp  
 100 105 110  
 Val Ser Thr Gly Arg Val Ile Gly Val Val Asp Glu Ala Ala Ala Asp  
 115 120 125  
 Arg Thr Val His Pro Gly Ala Val Tyr Leu His Gln Gly Asp Gln Trp

130	135	140
Leu Val Asp Glu Tyr Asn Pro Val Glu His His Ala Leu Val His Gln		
145	150	155
Asp Leu Pro Gly Tyr Trp Thr Gln Pro Gln Ser Ala Ser Thr Val Arg		160
	165	170
Ile Leu Arg Glu Glu Arg Arg Arg Ala Cys Gly Pro Gly Tyr Val Ala		175
	180	185
Cys Gly Gln Val Glu Leu Thr Glu Gln Val Val Gly Tyr Leu Arg Arg		190
	195	200
Asp Glu Phe Thr Asn Asp Val Trp Tyr Ser Leu Ala Leu Glu Met Pro		205
210	215	220

&lt;210&gt; 1133

&lt;211&gt; 796

&lt;212&gt; DNA

&lt;213&gt; Homo sapiens

&lt;400&gt; 1133

acgcgtgaag ggggggtccag cgggtgtggc actcgatgac aagacagttt gagagcggct  
60  
tgtctccggg gacctggcgt aggtctcttc tgccttaacc cttggctttt gcaactcttc  
120  
tgtctgtcct ccatacaagc ttcttgcccc tagggaggac gggcttctta acagggggag  
180  
ccgggtctcg tcctaacccc actggcatct tacactctgg gagatagctt cccccgaga  
240  
ggcagtgtag ccacgtaagg ggaggtgggc gatggtcttc cttctgtctt ggggtggggg  
300  
agtcaggtag agtatttttt cttttaaagc atcattgac acataataag gtttgtcata  
360  
gtccttaatc acagacctgt gaaatttgga gaattcaagg cacctaggat gggagtggagc  
420  
ttctgattgt gagctgattt gggagctaac ctcaaggaaa ctccctctgc aagccccctg  
480  
ctgggtgtgc gggccttcgc caggggacctc ccgggggactc tggacgtctt ttgtctgccc  
540  
ttccttttcc ctcacctcgc tcccccgtag gaaagtgggg ctcatgcagc tcagctcagt  
600  
gacagagggg ttattagggg tagctctggg acccatcttt tggtgatttc ttctctctct  
660  
ttctctaagt gaataattgt ttctgtctac acttttttat ttctctctct ctacagctgc  
720  
cttctaataa tgtgcttttc tgttctctga gaactgaagc ttgcatggcc ttgtgttgta  
780  
ctttcccttc acgcgt  
796

&lt;210&gt; 1134

&lt;211&gt; 147

&lt;212&gt; PRT

&lt;213&gt; Homo sapiens

&lt;400&gt; 1134

Met Gly Pro Arg Ala Thr Pro Asn Lys Pro Ser Val Thr Glu Leu Ser

```

      1           5           10           15
Cys Met Ser Pro Thr Phe Ser Arg Gly Ser Glu Val Arg Glu Lys Glu
      20           25           30
Gly Gln Thr Lys Ser Val Gln Ser Pro Arg Glu Val Pro Gly Glu Gly
      35           40           45
Pro Asp Thr Gln Gln Gly Ala Cys Lys Arg Ser Phe Leu Glu Val Ser
      50           55           60
Ser Gln Ile Ser Ser Gln Ser Glu Ala His Ser His Pro Arg Cys Arg
      65           70           75           80
Glu Phe Ser Lys Phe His Arg Ser Val Ile Lys Asp Tyr Asp Lys Pro
      85           90           95
Tyr Tyr Val Ile Asn Asp Ala Leu Lys Glu Lys Ile Leu Tyr Leu Thr
      100          105          110
Pro Pro Thr Gln Asp Arg Arg Glu Ala Ile Ala His Leu Pro Leu Arg
      115          120          125
Gly Ser Leu Ala Ser Gln Gly Glu Ala Ile Ser Gln Ser Val Arg Cys
      130          135          140
Gln Trp Gly
145

```

&lt;210&gt; 1135

&lt;211&gt; 376

&lt;212&gt; DNA

&lt;213&gt; Homo sapiens

&lt;400&gt; 1135

```

gatcaggcca cacaggacaa cttcgagaag ggctccatct tcccaccctt caccagcatc
60
agaaagatct ctgcgcacat cgctgcagcc gtggctgcaa aagcctacga gctcggctgtg
120
gcgacccgctc tgccctcccc cagcgacctg gtgaaatatg cagagaactg catgtacact
180
cccgcttacc gcaactaccg gtagtgctgc ggggatcaat ttgacagtaa taaaaaatct
240
actatcaacg cggatggtac tctgtgtgtt atagtcctcg ctgctaacca ccctgtgtgc
300
tggtgctgct ggagaggcat tgtacctgct catgcatata tgatatatat atgttgtaac
360
gttgtgaaag caaact
376

```

&lt;210&gt; 1136

&lt;211&gt; 67

&lt;212&gt; PRT

&lt;213&gt; Homo sapiens

&lt;400&gt; 1136

```

Asp Gln Ala Thr Gln Asp Asn Phe Glu Lys Gly Ser Ile Phe Pro Pro
      1           5           10           15
Phe Thr Ser Ile Arg Lys Ile Ser Ala His Ile Ala Ala Val Ala
      20           25           30
Ala Lys Ala Tyr Glu Leu Gly Leu Ala Thr Arg Leu Pro Pro Ser
      35           40           45
Asp Leu Val Lys Tyr Ala Glu Asn Cys Met Tyr Thr Pro Val Tyr Arg

```

50 55 60

Asn Tyr Arg  
65

<210> 1137  
<211> 357  
<212> DNA  
<213> Homo sapiens

<400> 1137  
acgcgtcgct ggaacccgaa gatgaagcgc ttcattcttca cgcagcgcaa cggatatctac  
60  
atcattgacc tgcaccagtc gctgacctac attgataagg cgtacgcctt cgtcaaggag  
120  
actgtcgcca agggcgccca gattcttttc gtcggcacga agaagcaggc ccaggagtc  
180  
atcgttgagc agggcactcg cgttggcatg ccctatgtca accagcgttg gcttggggga  
240  
atgctcacta atttccagac catctcgaag cgcattgccc ggctcaagga gctcgaggcc  
300  
atggactttg acaaggtttc cggctcgggt ctcaccaaga aggagctgct tatgctc  
357

<210> 1138  
<211> 119  
<212> PRT  
<213> Homo sapiens

<400> 1138  
Thr Arg Arg Trp Asn Pro Lys Met Lys Arg Phe Ile Phe Thr Glu Arg  
1 5 10 15  
Asn Gly Ile Tyr Ile Ile Asp Leu His Gln Ser Leu Thr Tyr Ile Asp  
20 25 30  
Lys Ala Tyr Ala Phe Val Lys Glu Thr Val Ala Lys Gly Gly Gln Ile  
35 40 45  
Leu Phe Val Gly Thr Lys Lys Gln Ala Gln Glu Ser Ile Val Glu Gln  
50 55 60  
Ala Thr Arg Val Gly Met Pro Tyr Val Asn Gln Arg Trp Leu Gly Gly  
65 70 75 80  
Met Leu Thr Asn Phe Gln Thr Ile Ser Lys Arg Ile Ala Arg Leu Lys  
85 90 95  
Glu Leu Glu Ala Met Asp Phe Asp Lys Val Ser Gly Ser Gly Leu Thr  
100 105 110  
Lys Lys Glu Leu Leu Met Leu  
115

<210> 1139  
<211> 456  
<212> DNA  
<213> Homo sapiens

<400> 1139  
gtgcacaggt cgtctgaggc catgccgagg acgatcgatc cgagtatggc ggcaccttca  
60

ccaatcccgt aggaccgctc tcgtccagca tcgaccaagg cgctgttgag gcgttcggct  
 120  
 tcggtaataga actcgatgcg ctcaatatcc acgggggtag cgaatcgta gatcttggcc  
 180  
 agactgagggc ctggaggag cgcgccgctc ggggggacgt ggctgcccgc cgggcggtcc  
 240  
 ttgctctcaa ggacttcgctc gtcgcggtg acaaggaata cgtttgtgtg gtcgcctgca  
 300  
 atgcatgctc gagcgtgggtg accatcgagg tgaaggacgg ttctggcata gaggtcatcg  
 360  
 tccacatcgg ccacagtggg ttgcacgact cctgagtcga ctgatgacg cgccttctct  
 420  
 gccgcgtctt cgctgacgct gcccaggacc gctagc  
 456

&lt;210&gt; 1140

&lt;211&gt; 122

&lt;212&gt; PRT

&lt;213&gt; Homo sapiens

&lt;400&gt; 1140

Met	Trp	Thr	Met	Thr	Ser	Met	Pro	Lys	Pro	Ser	Phe	Thr	Ser	Met	Val
1				5					10					15	
Thr	Thr	Leu	Glu	His	Ala	Leu	Gln	Ala	Thr	Thr	Gln	Thr	Tyr	Ser	Leu
		20					25						30		
Ser	Ala	Ala	Thr	Thr	Lys	Ser	Leu	Arg	Ala	Arg	Asn	Ala	Arg	Pro	Gln
		35					40				45				
Ala	Thr	Ser	Pro	Arg	Arg	Pro	Arg	Ser	Ser	Lys	Ala	Ser	Val	Trp	Pro
		50				55				60					
Arg	Ser	Thr	Ile	Ser	Leu	Pro	Pro	Trp	Ile	Leu	Ser	Ala	Ser	Ser	Ser
65			70					75					80		
Leu	Pro	Lys	Pro	Asn	Ala	Ser	Thr	Ala	Pro	Trp	Ser	Met	Leu	Asp	Glu
			85					90					95		
Thr	Gly	Pro	Thr	Gly	Leu	Val	Lys	Val	Pro	Pro	Tyr	Ser	Asp	Arg	Ser
		100					105						110		
Ser	Ala	Ala	Trp	Pro	Gln	Thr	Thr	Cys	Ala						
		115					120								

&lt;210&gt; 1141

&lt;211&gt; 354

&lt;212&gt; DNA

&lt;213&gt; Homo sapiens

&lt;400&gt; 1141

ggcgccatgc tcggcggggt ggtgctgggt gtggccgaag cctttggcgc cgatatcttc  
 60  
 ggcgaccagt acaaggacgt ggtggcggtt ggctgtgttg ttctgggtgct gttgttccgt  
 120  
 ccgaccggca ttctggggcg tccggaggtt gagaagatat gagcagatat cttaaatcgg  
 180  
 cgtttttcag cgccctgttg gtgtggggcg tggcctttcc ggtactcggc ctcaagctga  
 240  
 gcattgtcgg gatcaaccac gaagtgcacg gcaccgggtc cgtgaccttg accatcatcg  
 300

ccctgtgctc ggtgccgatg ttctgcgcg tgctgtttac ccagcaagtc ggtg  
354

<210> 1142

<211> 53

<212> PRT

<213> Homo sapiens

<400> 1142

Gly Ala Met Leu Gly Gly Leu Val Leu Gly Val Ala Glu Ala Phe Gly  
1 5 10 15  
Ala Asp Ile Phe Gly Asp Gln Tyr Lys Asp Val Val Ala Phe Gly Leu  
20 25 30  
Leu Val Leu Val Leu Leu Phe Arg Pro Thr Gly Ile Leu Gly Arg Pro  
35 40 45  
Glu Val Glu Lys Val  
50

<210> 1143

<211> 353

<212> DNA

<213> Homo sapiens

<400> 1143

acgcgttgca catccccag gaccatcaac cgcggcattg ccgcatagac ctggagatcc  
60  
catgcaacgt gaaatgaagt tcgaatcgat caaggcaaag gccaggcgga tgctcatcgg  
120  
cgcagccgac gacacagcaa gcgcaggcgc gaccaaccga gggtggtctca acagcgcgcg  
180  
attcgaaatc ctggcccacg tggccgtcaa tgcccaacac tacgcgctct ccgagagacc  
240  
ggcgctggag gagttcgcca agagcttcca gccgcgcaac aaccaggact acgtggccgc  
300  
gategccaag aaggccgcga accacacat gcattccggc aggcagtcga ttt  
353

<210> 1144

<211> 102

<212> PRT

<213> Homo sapiens

<400> 1144

Met His Gly Val Val Arg Gly Leu Leu Gly Asp Arg Gly His Val Val  
1 5 10 15  
Leu Val Val Ala Arg Leu Glu Ala Leu Gly Glu Leu Leu Gln Arg Arg  
20 25 30  
Ser Leu Gly Glu Arg Val Val Leu Gly Ile Asp Gly His Val Gly Gln  
35 40 45  
Asp Phe Glu Cys Gly Ala Val Glu Pro Pro Ser Val Gly Arg Ala Cys  
50 55 60  
Ala Cys Cys Val Val Gly Cys Ala Asp Glu His Arg Leu Gly Leu Cys  
65 70 75 80  
Leu Asp Arg Phe Glu Leu His Phe Thr Leu His Gly Ile Ser Arg Ser

85  
Met Arg Gln Cys Arg Gly  
100

90

95

<210> 1145  
<211> 360  
<212> DNA  
<213> Homo sapiens

<400> 1145  
gtcttcggcg ggctcggcct gttctattgc gtcacgaccc cggtgtactg gttctcggcc  
60  
catgaagtgg ccggcacctg ggtactcggg ctgtcggcgg cgatggctct gatgggtgtt  
120  
ttctacgtcc aggtcatcgc caagaagatc aatcctcgac cctccgacga gaaggacgcc  
180  
gaggtgatcg acggggctgg tccggctcgg tttctcccgc cacagagtat ctggccgttc  
240  
tggtgcgcgc tcgttgctgc catcatgtgc ctccggccga tcttcggctg gtggatctct  
300  
ctgctcgggc tgggcattgt tatctgggcc gctcggggtt gggcttttga gtactaccgc  
360

<210> 1146  
<211> 120  
<212> PRT  
<213> Homo sapiens

<400> 1146  
Val Phe Gly Gly Leu Gly Leu Phe Tyr Cys Val Met Thr Pro Val Tyr  
1 5 10 15  
Trp Phe Ser Ala His Glu Val Ala Gly Thr Trp Val Leu Gly Leu Ser  
20 25 30  
Ala Ala Met Ala Leu Met Val Phe Phe Tyr Val Gln Val Ile Ala Lys  
35 40 45  
Lys Ile Asn Pro Arg Pro Ser Asp Glu Lys Asp Ala Glu Val Ile Asp  
50 55 60  
Gly Ala Gly Pro Val Gly Phe Phe Pro Pro Gln Ser Ile Trp Pro Phe  
65 70 75 80  
Trp Cys Ala Leu Val Val Ala Ile Met Cys Leu Gly Pro Ile Phe Gly  
85 90 95  
Trp Trp Ile Ser Leu Leu Gly Leu Gly Ile Val Ile Trp Ala Ala Ser  
100 105 110  
Gly Trp Ala Phe Glu Tyr Tyr Arg  
115 120

<210> 1147  
<211> 409  
<212> DNA  
<213> Homo sapiens

<400> 1147  
tgtacattgg ctatgcagtc tggcctcctg aagggttatga tagtagccaa aaatatagaa  
60

gccccaaaagg catccacctt ctcatcaat ccagaattga tcattgctcat gcctgtgggt  
 120  
 ggatcactat gtgctctcca aattgggagg ggaagtctac tctctctctt cctctctctc  
 180  
 ccacettccc ctctctcttc tctctttctt attcccaggg cagtggaaaca tgatgaggtt  
 240  
 cttttccctt catggatata ctctttctgc cctccacata aaggggcatt gatggatctt  
 300  
 caagaatggg atgcctttcc ctgaaaaggc taaatattca tgaggctgaa tgtgaggatc  
 360  
 cagagtagac tgaaatataa ctgggtcatca gtacacatag aatctgatn  
 409

<210> 1148  
 <211> 103  
 <212> PRT  
 <213> Homo sapiens

<400> 1148  
 Met Gln Ser Gly Leu Leu Lys Val Met Ile Val Ala Lys Asn Ile Glu  
 1 5 10 15  
 Ala Lys Lys Ala Ser Thr Phe Phe Ile Asn Pro Glu Leu Ile Met Leu  
 20 25 30  
 Met Pro Val Gly Gly Ser Leu Cys Ala Leu Gln Ile Gly Arg Gly Ser  
 35 40 45  
 Leu Leu Ser Ser Leu Leu Ser Leu Pro Pro Ser Pro Leu Ser Ser Leu  
 50 55 60  
 Leu Ser Ile Pro Arg Ala Val Glu His Asp Glu Val Leu Phe Pro Ser  
 65 70 75 80  
 Trp Ile Ser Ser Phe Cys Pro Pro His Lys Gly Ala Leu Met Asp Leu  
 85 90 95  
 Gln Glu Trp Asp Ala Phe Pro  
 100

<210> 1149  
 <211> 309  
 <212> DNA  
 <213> Homo sapiens

<400> 1149  
 gtcgacttct gcatggaaaa acgcatctct gtgattgagc acgttgcgga gatgtacggc  
 60  
 cgtgaggcgg tatcgcagat cattaccttc ggtaccatgg cggcgaaagc ggattattcgt  
 120  
 gacgtggggc gtgtactggg taccctgtat ggcttcgtcg atcgcatctc caagctgggt  
 180  
 ccgcccgatc cgggcatgac gctggaaaaa gcctttgccg ccgaaccgca gttgccggaa  
 240  
 atctacgagg ccgatgagga agtcaaaagc ctgatcgaca tggcgcgcaa gctgggaagg  
 300  
 gtgacgcgg  
 309

<210> 1150

&lt;211&gt; 103

&lt;212&gt; PRT

&lt;213&gt; Homo sapiens

&lt;400&gt; 1150

```

Val Asp Phe Cys Met Glu Lys Arg Asp Leu Val Ile Glu His Val Ala
 1             5             10             15
Glu Met Tyr Gly Arg Glu Ala Val Ser Gln Ile Ile Thr Phe Gly Thr
                20             25             30
Met Ala Ala Lys Ala Val Ile Arg Asp Val Gly Arg Val Leu Gly His
                35             40             45
Pro Tyr Gly Phe Val Asp Arg Ile Ser Lys Leu Val Pro Pro Asp Pro
 50             55             60
Gly Met Thr Leu Glu Lys Ala Phe Ala Ala Glu Pro Gln Leu Pro Glu
65             70             75             80
Ile Tyr Glu Ala Asp Glu Glu Val Lys Ala Leu Ile Asp Met Ala Arg
                85             90             95
Lys Leu Gly Arg Val Thr Arg
                100

```

&lt;210&gt; 1151

&lt;211&gt; 360

&lt;212&gt; DNA

&lt;213&gt; Homo sapiens

&lt;400&gt; 1151

```

gcgcgcattt ttgtcaaccc aagcgacgtc attatggcgc agtcgccggc ttatgtcggg
60
gcgcctaata ccttcgcctc gtaccaaact gaggtcattc acgtcgacat ggacgacagc
120
gggttggttc cggaatccct gcgtgagaaa gtgactgcag cgcgtcaaga cggcaagtcg
180
gtgaagtctc ttacacggtt tcctaactac tcgaaccgct cggaatctc gcaatccacc
240
gagcgtgcgc ggagatcctt agcgttggtt gacgagctgg atctgttggt ggttgaggac
300
aaccgcgtac gggtactcaa cctcgatggt gatccactgc cgagcttgaa gtcgatggat
360

```

&lt;210&gt; 1152

&lt;211&gt; 120

&lt;212&gt; PRT

&lt;213&gt; Homo sapiens

&lt;400&gt; 1152

```

Ala Arg Ile Phe Cys Asn Pro Ser Asp Val Ile Met Ala Glu Ser Pro
 1             5             10             15
Ala Tyr Val Gly Ala Leu Asn Thr Phe Ala Ser Tyr Gln Thr Glu Val
                20             25             30
Ile His Val Asp Met Asp Asp Ser Gly Leu Val Pro Glu Ser Leu Arg
                35             40             45
Glu Lys Val Thr Ala Ala Arg Gln Asp Gly Lys Ser Val Lys Phe Leu
 50             55             60
Tyr Thr Val Pro Asn Tyr Ser Asn Pro Ser Gly Ile Ser Gln Ser Thr

```

```

65          70          75          80
Glu Arg Arg Arg Glu Ile Leu Ala Val Ala Asp Glu Leu Asp Leu Leu
      85          90          95
Val Val Glu Asp Asn Pro Tyr Gly Leu Leu Asn Leu Asp Gly Asp Pro
      100          105          110
Leu Pro Thr Leu Lys Ser Met Asp
      115          120

```

```

<210> 1153
<211> 416
<212> DNA
<213> Homo sapiens

```

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<400> 1153
gcgtggattc gtctctggcgg cgtcgtctacc gacctgcccg agaccgggct cgaccagttg
60
cgtgacctca tcaagcggat ggaagaagtag ctccccgaga tcggtcagtt ctgcaatgag
120
aatccgatct ttaagccccg cactcagggc attgggttacg ctgactctgtc tacctgtatg
180
gccctggggg ttactgggtcc tgctctgcgc gctaccggcc tgccgtggga cctgcgcaag
240
accacagccct attgcgatta cgacacgtat gacttcgacg tcgccacctg ggatacctgt
300
gactgttacg ggcgtttccg catccgcctg gaagagatgg accagtcggt gcgcattctc
360
aagcaatgcc tcaaacgcct cgaggacacc cagggtgacc gtaatatggt cgagga
416

```

```

<210> 1154
<211> 138
<212> PRT
<213> Homo sapiens

```

```

<400> 1154
Ala Trp Ile Arg Pro Gly Gly Val Ala Thr Asp Leu Pro Glu Thr Gly
1      5      10      15
Leu Asp Gln Leu Arg Asp Leu Ile Lys Arg Met Glu Lys Tyr Leu Pro
20     25     30
Glu Ile Gly Gln Phe Cys Asn Glu Asn Pro Ile Phe Lys Ala Arg Thr
35     40     45
Gln Gly Ile Gly Tyr Ala Asp Leu Ser Thr Cys Met Ala Leu Gly Val
50     55     60
Thr Gly Pro Ala Leu Arg Ala Thr Gly Leu Pro Trp Asp Leu Arg Lys
65     70     75     80
Thr Gln Pro Tyr Cys Asp Tyr Asp Thr Tyr Asp Phe Asp Val Ala Thr
85     90     95
Trp Asp Thr Cys Asp Cys Tyr Gly Arg Phe Arg Ile Arg Leu Glu Glu
100    105    110
Met Asp Gln Ser Val Arg Ile Leu Lys Gln Cys Leu Lys Arg Leu Glu
115    120    125
Asp Thr Gln Gly Asp Arg Asn Met Val Glu
130    135

```

<210> 1155  
 <211> 339  
 <212> DNA  
 <213> Homo sapiens

<400> 1155  
 cttaaagttat ttgtgtcttt gcctctctcc tcaggttgtg aagattacag aaatctggga  
 60  
 tggtcttatgg gacgcttctc agccctaagt aggaaaacag cagtgaaaat ggcaacaaaa  
 120  
 acatcacgca ggactggggg ttttggggaa acagctcact ttagagcagt gcagtgtaga  
 180  
 gctttccgtc ttctaccagg gtcacacctt aacactgttt atctgaaaat tttccccctg  
 240  
 gcttactcgc ttgcagctgc ccacttttgc gaaagatggc gctctgatct ctacgctccc  
 300  
 tgttccttca gggactccat agtatttttt ttcacgcgt  
 339

<210> 1156  
 <211> 91  
 <212> PRT  
 <213> Homo sapiens

<400> 1156  
 Met Gly Arg Phe Ser Ala Leu Ser Arg Lys Thr Ala Val Lys Met Ala  
 1 5 10 15  
 Thr Lys Thr Ser Ser Arg Arg Thr Gly Gly Phe Gly Glu Thr Ala His Phe  
 20 25 30  
 Arg Ala Val Gln Cys Arg Ala Phe Arg Leu Leu Pro Gly Ser Thr Phe  
 35 40 45  
 Asn Thr Val Tyr Leu Lys Ile Phe Pro Leu Ala Tyr Ser Leu Ala Ala  
 50 55 60  
 Ala His Phe Ala Glu Arg Trp Arg Ser Asp Leu Tyr Ala Pro Cys Ser  
 65 70 75 80  
 Phe Arg Asp Ser Ile Val Phe Phe Phe Thr Arg  
 85 90

<210> 1157  
 <211> 426  
 <212> DNA  
 <213> Homo sapiens

<400> 1157  
 nnacagcttc tctccgaccg ggcggcggtt gcacacgtcc ccgtctgagg agtattcgtg  
 60  
 ctggcaaaac tcgtgaccgg acacctgagg gcctatcggg tgcacgttgc cgtcatcatc  
 120  
 gttatgcagg ttgcgccca aatcgcggcc ctgaccttgc caaccatcaa cgcagacatc  
 180  
 atcaacaagg gcgtcgtgac agcggatacc ggatatgtca ccacccactc cctcttcatg  
 240  
 ctggcggtcg ctttagggca ggccatctgc caggtcattg cggtttatct cgccgctcag  
 300

gtggcgatgg gaatgggccg tgacgttcgc gacgccatct tcaccgcac ccttgacttc  
 360  
 tcggcccgagg agatcaacaa attcggagca ccatcactca ttaccggagc taccaacgac  
 420  
 gtccag  
 426

<210> 1158  
 <211> 123  
 <212> PRT  
 <213> Homo sapiens

<400> 1158  
 Val Leu Ala Lys Leu Val Thr Arg His Leu Arg Ala Tyr Arg Leu His  
 1 5 10 15  
 Val Ala Val Ile Ile Val Met Gln Val Cys Ala Gln Ile Ala Ala Leu  
 20 25 30  
 Thr Leu Pro Thr Ile Asn Ala Asp Ile Ile Asn Lys Gly Val Val Thr  
 35 40 45  
 Ala Asp Thr Gly Tyr Val Thr Thr His Ser Leu Phe Met Leu Ala Val  
 50 55 60  
 Ala Leu Gly Gln Ala Ile Cys Gln Val Ile Ala Val Tyr Leu Ala Ala  
 65 70 75 80  
 Gln Val Ala Met Gly Met Gly Arg Asp Val Arg Asp Ala Ile Phe Thr  
 85 90 95  
 Arg Thr Leu Asp Phe Ser Ala Arg Glu Ile Asn Lys Phe Gly Ala Pro  
 100 105 110  
 Ser Leu Ile Thr Arg Thr Thr Asn Asp Val Gln  
 115 120

<210> 1159  
 <211> 434  
 <212> DNA  
 <213> Homo sapiens

<400> 1159  
 tctctccgac cgcgcctggg gcccggtggg gtcctgcggg gacgcgggag aggcacggcg  
 60  
 ggacgaggca ggagcaggcc gggctctcgc catgggtcac tgtcgctctt gccacgggaa  
 120  
 gttttctctg agaagcctgc cgacatctc cgagagggcg cctggagcga gcattggagag  
 180  
 gccatccgca gaggagcgcg tgctcgtacg ggacttccag cgcctgcttg gtgtggctgt  
 240  
 ccgccaggac cccaccttgt ctccgtttgt ctgcaagagc tgccacgccc agttctacca  
 300  
 gtgccacagc cttctcaagt ctttctgca gaggggtcaac gcctccccgg ctggtcgccc  
 360  
 gaagccttgt gcaaaggctg gtgccacgcc cccaacaggg cgacaggagg gacggtgtct  
 420  
 ggtggatctg atca  
 434

<210> 1160

&lt;211&gt; 114

&lt;212&gt; PRT

&lt;213&gt; Homo sapiens

&lt;400&gt; 1160

```

Met Gly His Cys Arg Leu Cys His Gly Lys Phe Ser Ser Arg Ser Leu
 1             5             10             15
Arg Ser Ile Ser Glu Arg Ala Pro Gly Ala Ser Met Glu Arg Pro Ser
 20             25             30
Ala Glu Glu Arg Val Leu Val Arg Asp Phe Gln Arg Leu Leu Gly Val
 35             40             45
Ala Val Arg Gln Asp Pro Thr Leu Ser Pro Phe Val Cys Lys Ser Cys
 50             55             60
His Ala Gln Phe Tyr Gln Cys His Ser Leu Leu Lys Ser Phe Leu Gln
 65             70             75             80
Arg Val Asn Ala Ser Pro Ala Gly Arg Arg Lys Pro Cys Ala Lys Val
 85             90             95
Gly Ala Gln Pro Pro Thr Gly Ala Glu Glu Gly Ala Cys Leu Val Asp
 100            105            110
Leu Ile

```

&lt;210&gt; 1161

&lt;211&gt; 355

&lt;212&gt; DNA

&lt;213&gt; Homo sapiens

&lt;400&gt; 1161

```

ctgcacacac accaggccac gccacgagg acggccagtc agcatgcagc caatacaccc
 60
acagaggggat ggggagcagc cctcagtgcc agctccaaca ggccactgc aggtcctgtc
 120
actgcaccca aggagctgcc ttccatttca cctgacattt ccactaaggg cccagcgttt
 180
atcattccag aagagcagca ggcagaacct tcacctcca agagctgcaa gtgcgctgtg
 240
gcaggaaaaa aagatctggc gtctgaagtc agctcctgct ctccaggaaa agagggacga
 300
tgacatagga cttgagcaaa atgagagccc cgtgatggga gagaacacct gatca
 355

```

&lt;210&gt; 1162

&lt;211&gt; 102

&lt;212&gt; PRT

&lt;213&gt; Homo sapiens

&lt;400&gt; 1162

```

Met Gln Pro Ile His Pro Gln Arg Asp Gly Glu Gln Pro Ser Val Pro
 1             5             10             15
Ala Pro Thr Gly Pro Leu Gln Val Leu Ser Leu His Pro Arg Ser Cys
 20             25             30
Leu Pro Phe His Leu Thr Phe Pro Leu Arg Ala Gln Arg Leu Ser Phe
 35             40             45
Gln Lys Ser Ser Arg Gln Asn Leu His Leu Pro Arg Ala Ala Ser Ala

```

```

      50              55              60
Leu Trp Gln Glu Lys Lys Ile Trp Arg Leu Lys Ser Ala Pro Ala Leu
65              70              75              80
Gln Glu Lys Arg Asp Asp Ile Gly Leu Glu Gln Asn Glu Ser Pro
      85              90              95
Val Met Gly Glu Asn Thr
      100

```

<210> 1163  
 <211> 466  
 <212> DNA  
 <213> Homo sapiens

```

<400> 1163
ngcgcgccag gaagcgggag gtcagctgta caccaggggt aatagaactt ctaccctcag
60
aggaggtcaaa gagaaggcag aactatggca ggaaagctcc ggaagtccca catccctgga
120
gtgagcatctt ggcagctggt ggaggagatc cctgaaggct gcagcacgcc ggactttgag
180
cagaagccccg tcacctcggc tctgccagag gggaaaaatg ctgtcttttcg ggctgtggtc
240
tgtggggagc ccaggccoga ggtgcgttgg cagaactcca aaggtgacct cagtgtattcc
300
agcaagtaca agatctcttc cagccctggc agcaaggagc acgtgctgca gatcaacaag
360
ctgacaggcg aggacacgga tctgtaccac tgcacagcag taaatgcgta cggagaggcc
420
gcttgctcag tgagactcac cgtcatcgaa gttggctttc ggaaga
466

```

<210> 1164  
 <211> 127  
 <212> PRT  
 <213> Homo sapiens

```

<400> 1164
Met Ala Gly Lys Leu Arg Lys Ser His Ile Pro Gly Val Ser Ile Trp
1      5      10      15
Gln Leu Val Glu Glu Ile Pro Glu Gly Cys Ser Thr Pro Asp Phe Glu
      20      25      30
Gln Lys Pro Val Thr Ser Ala Leu Pro Glu Gly Lys Asn Ala Val Phe
      35      40      45
Arg Ala Val Val Cys Gly Glu Pro Arg Pro Glu Val Arg Trp Gln Asn
      50      55      60
Ser Lys Gly Asp Leu Ser Asp Ser Ser Lys Tyr Lys Ile Ser Ser Ser
65      70      75      80
Pro Gly Ser Lys Glu His Val Leu Gln Ile Asn Lys Leu Thr Gly Glu
      85      90      95
Asp Thr Asp Leu Tyr His Cys Thr Ala Val Asn Ala Tyr Gly Glu Ala
      100     105     110
Ala Cys Ser Val Arg Leu Thr Val Ile Glu Val Gly Phe Arg Lys
      115     120     125

```

<210> 1165  
 <211> 414  
 <212> DNA  
 <213> Homo sapiens

<400> 1165  
 tgggtggttc cggacacana aaatcacgtg ttgaaccgaa ttccaggcat ggtgaaaggg  
 60  
 tgcttttagta aagtccttgt tgagccgcgt ctgctcaagc tcaacttgac nattatgtgt  
 120  
 ctgcacattc tgctgatgtc cacgttcgtg gccctgcccc gtcagttggc tgcagcagga  
 180  
 ttccccgcgc ctgaacactg gaaagtgtat ctggtgacga tgctcatctc cttcgtctcc  
 240  
 gttgtccctt tcattatcta tgcagaagtg aaacgccgca tgaagcgcgt attcctgacg  
 300  
 tgtgttgccg tgctgttgat tgccgaaatc gtactatggg gtcctggccc acacttctgg  
 360  
 gaactgtgta tcggcgtaga gcttttcttc ctgccttcta atctcatgga agcc  
 414

<210> 1166  
 <211> 138  
 <212> PRT  
 <213> Homo sapiens

<400> 1166  
 Trp Val Val Pro Asp Thr Xaa Asn His Val Leu Asn Arg Ile Ser Gly  
 1 5 10 15  
 Met Val Lys Gly Cys Phe Ser Lys Val Leu Val Glu Pro Arg Leu Leu  
 20 25 30  
 Lys Leu Asn Leu Thr Ile Met Cys Leu His Ile Leu Leu Met Ser Thr  
 35 40 45  
 Phe Val Ala Leu Pro Gly Gln Leu Ala Ala Ala Gly Phe Pro Ala Ala  
 50 55 60  
 Glu His Trp Lys Val Tyr Leu Val Thr Met Leu Ile Ser Phe Val Ser  
 65 70 75 80  
 Val Val Pro Phe Ile Ile Tyr Ala Glu Val Lys Arg Arg Met Lys Arg  
 85 90 95  
 Val Phe Leu Thr Cys Val Ala Leu Leu Leu Ile Ala Glu Ile Val Leu  
 100 105 110  
 Trp Gly Ser Gly Pro His Phe Trp Glu Leu Val Ile Gly Val Gln Leu  
 115 120 125  
 Phe Phe Leu Ala Phe Asn Leu Met Glu Ala  
 130 135

<210> 1167  
 <211> 464  
 <212> DNA  
 <213> Homo sapiens

<400> 1167  
 gtcgaccccc tgggcaagag tcgcggcccc tgacgataac ttcacccccg cggccttgag  
 60

ctgttgggac cggctggcta aggcctgggc accggtagcg gcctgggtga taccctcatg  
 120  
 tagccgggtg acctgcctga ccatcttcgg caaacaccatg cgcagttgtg tggtagaattc  
 180  
 attgacccct cgagacagtc gtgaggaacc gtcagcaagt tcgtcgatgc cgtcgtcgat  
 240  
 gctcttgcca gagttcggat ccttgatcgc catcgcttg acggccaccc ccgaccacg  
 300  
 ccgcacgccc agggcgatcc catcggtcat cgcgtcgcgg acgatgggta ccaggtcgtg  
 360  
 gcattcctgc gcggtgtggc ttcgcacgca tcgacgcagg aagtcagcct cgtcccgga  
 420  
 cagggcttcc ttactaagtt ccgcgggtttt ctttcccgac gcgt  
 464

<210> 1168

<211> 110

<212> PRT

<213> Homo sapiens

<400> 1168

Met	Thr	Asp	Gly	Tyr	Ala	Leu	Gly	Val	Arg	Ala	Gly	Ser	Gly	Val	Ala
1			5					10					15		
Val	Lys	Ala	Met	Ala	Ile	Lys	Asp	Pro	Asn	Ser	Gly	Lys	Ser	Ile	Asp
		20						25				30			
Asp	Gly	Ile	Asp	Glu	Leu	Ala	Asp	Gly	Ser	Ser	Arg	Leu	Ser	Arg	Gly
		35					40					45			
Val	Asn	Glu	Phe	Thr	Thr	Gln	Leu	Arg	Thr	Gly	Leu	Pro	Lys	Met	Val
		50				55					60				
Arg	Gln	Val	Thr	Arg	Leu	His	Glu	Gly	Ile	His	Gln	Ala	Ala	Thr	Gly
65				70					75					80	
Ala	Gln	Ala	Leu	Ala	Ser	Arg	Ser	Gln	Gln	Leu	Lys	Ala	Gly	Gly	Val
			85						90					95	
Lys	Leu	Ser	Ser	Gly	Ala	Ala	Thr	Leu	Ala	His	Gly	Val	Asp		
			100					105					110		

<210> 1169

<211> 486

<212> DNA

<213> Homo sapiens

<400> 1169

nacgcgtgaa gggagcagaa cggacaccag ttactagtgg ctctgggtcgg ggacagcctc  
 60  
 ctagagcctt tctggccaat gggaacagga atagcccggg gctttctagc tgctatggac  
 120  
 tctgctcgga tgggtccgaag ttggtctcta ggaacgagcc ctttggaagt gctggcagag  
 180  
 agggaaaagta ttacaggtt gctgcctcag accaccctg agaatgtgag taagaacttc  
 240  
 agccagtaca gtatcgaccc tgtcactcgg tatcccaata tcaacgtcaa cttcctccgg  
 300  
 ccaagccagg tgcgccattt atatgatact ggcgaacaa aagatattca cctggaaatg  
 360

gagagcctgg tgaattcccc aaccaccccc aaattgactc gcaatgagtc tgtagctcgt  
 420  
 tcaagcaaac tgctgggttg gtgccagagg cagacagatg gctatgcagg ggtaaacgtg  
 480  
 acagat  
 486

<210> 1170  
 <211> 159  
 <212> PRT  
 <213> Homo sapiens

<400> 1170  
 Arg Glu Gln Asn Gly His Gln Leu Leu Val Ala Leu Val Gly Asp Ser  
 1 5 10 15  
 Leu Leu Glu Pro Phe Trp Pro Met Gly Thr Gly Ile Ala Arg Gly Phe  
 20 25 30  
 Leu Ala Ala Met Asp Ser Ala Trp Met Val Arg Ser Trp Ser Leu Gly  
 35 40 45  
 Thr Ser Pro Leu Glu Val Leu Ala Glu Arg Glu Ser Ile Tyr Arg Leu  
 50 55 60  
 Leu Pro Gln Thr Thr Pro Glu Asn Val Ser Lys Asn Phe Ser Gln Tyr  
 65 70 75 80  
 Ser Ile Asp Pro Val Thr Arg Tyr Pro Asn Ile Asn Val Asn Phe Leu  
 85 90 95  
 Arg Pro Ser Gln Val Arg His Leu Tyr Asp Thr Gly Glu Thr Lys Asp  
 100 105 110  
 Ile His Leu Glu Met Glu Ser Leu Val Asn Ser Arg Thr Pro Lys  
 115 120 125  
 Leu Thr Arg Asn Glu Ser Val Ala Arg Ser Ser Lys Leu Leu Gly Trp  
 130 135 140  
 Cys Gln Arg Gln Thr Asp Gly Tyr Ala Gly Val Asn Val Thr Asp  
 145 150 155

<210> 1171  
 <211> 429  
 <212> DNA  
 <213> Homo sapiens

<400> 1171  
 acgcgttcaa caaagcacag aaccggagat gcagtgggag ccgagagcag gaagcgcgga  
 60  
 ggacgcgcga ggtgctggcg ctgcccagg ccccggtcca agtggggccc atagcagccg  
 120  
 actcgctaga cctcccaaaa acgcacacca cgcgcgacca ggaccgagag gcccgcacgg  
 180  
 ccctgctagg ccacaaacac tccactgtct ccagggtaaa agacaaacac agcctcgctt  
 240  
 gtcctccaa gactacaacc tctgtctgat gaaaaacaaa cgaccagag aggaggcagc  
 300  
 tgccgggaca ctgcaggctg ggcccgcgc gcccttgagg ggcagggtcaa aatccccgaa  
 360  
 caggcacagt gttcaggctg attgactgtc ccaggccagg gcgcctcaa ctgccagagc  
 420

acctcctac  
429

<210> 1172  
<211> 118  
<212> PRT  
<213> Homo sapiens

<400> 1172  
Met Gln Trp Glu Pro Arg Ala Gly Ser Ala Glu Ala Ala Pro Gly Ala  
1 5 10 15  
Gly Ala Ala Arg Gly Pro Val Pro Ser Gly Ala His Ser Ser Arg Leu  
20 25 30  
Ala Arg Pro Ser Gln Asn Ala His His Ala Arg Pro Gly Pro Arg Gly  
35 40 45  
Pro His Gly Pro Ala Arg Pro Gln Thr Leu His Cys Leu Gln Gly Lys  
50 55 60  
Arg Gln Thr Gln Pro Arg Leu Ser Leu Gln Glu Tyr Asn Leu Cys Leu  
65 70 75 80  
Met Lys Asn Lys Arg Pro Arg Glu Glu Ala Ala Gly Thr Leu Gln  
85 90 95  
Ala Gly Pro Ala Ala Pro Leu Glu Gly Arg Ser Lys Ser Arg Asn Arg  
100 105 110  
His Ser Val Gln Ala Asp  
115

<210> 1173  
<211> 435  
<212> DNA  
<213> Homo sapiens

<400> 1173  
cgcggtcaatg acgacggcga gcattctgcc gagcaggtga tgcgagccac ccgcggtgct  
60  
ggacttgggg ccgaggccaa gcgtcgcatc atcttgggta cctatgcctt gtcgggtggg  
120  
tactatgacg cctactacgg ctccggctcag aaagtccgta ccctcatcca acgcgacttc  
180  
gagaaagcat ggcagatgtg cgatgtgctc gtgtcaccgg ccacgccaaac gactgccttc  
240  
cggtctgggtg agcgtactgc tgacccgatg gcgatgtacc gctccgatct atgcacggtc  
300  
ccggccaata tggccggaag tcccgcagga tctttcccca tcggtctatc agagaccgac  
360  
ggcatgcccc tcggcatgca ggtgatggcg ccaatcatgg cggacgatcg aatctaccga  
420  
gttggggccg ctcta  
435

<210> 1174  
<211> 145  
<212> PRT  
<213> Homo sapiens

&lt;400&gt; 1174

```

Arg Val Asn Asp Asp Gly Glu His Ser Ala Glu Gln Val Met Arg Ala
1          5          10          15
Thr Arg Gly Ala Gly Leu Gly Ala Glu Ala Lys Arg Arg Ile Ile Leu
20          25          30
Gly Thr Tyr Ala Leu Ser Ala Gly Tyr Tyr Asp Ala Tyr Tyr Gly Ser
35          40          45
Ala Gln Lys Val Arg Thr Leu Ile Gln Arg Asp Phe Glu Lys Ala Trp
50          55          60
Gln Met Cys Asp Val Leu Val Ser Pro Ala Thr Thr Thr Ala Phe
65          70          75          80
Arg Leu Gly Glu Arg Thr Ala Asp Pro Met Ala Met Tyr Arg Ser Asp
85          90          95
Leu Cys Thr Val Pro Ala Asn Met Ala Gly Ser Pro Ala Gly Ser Phe
100          105          110
Pro Ile Gly Leu Ser Glu Thr Asp Gly Met Pro Val Gly Met Gln Val
115          120          125
Met Ala Pro Ile Met Ala Asp Asp Arg Ile Tyr Arg Val Gly Ala Ala
130          135          140
Leu
145

```

&lt;210&gt; 1175

&lt;211&gt; 729

&lt;212&gt; DNA

&lt;213&gt; Homo sapiens

&lt;400&gt; 1175

```

gatcgactg caatccaccc acatctactt gatatgaaaa ttggtaagg caaatatgag
60
caggggttct ttccaaagt acagtccgat gtcttgcaa caggaccaac cagtaacaat
120
cgctgggtaa gtcggagtgc cactgcacag cgcaggaaag gacgccttcg ccagcattct
180
gagcatgttg ggctggacaa cgacttgagg gagaaatata tgcaagaggc acgaagttaa
240
ggaaaaaac tgaggcaacc caaactgtca gacctctctc ctgcagttat tgcaacagac
300
aactgtaaat tcgtagaagg cttattaaaa gaatgtagaa ataagacaaa gcgcagtgtg
360
gtggagaaga tgggacatga agcgggtgaa cttggccatg gagaagcaaa catcaccggc
420
ctggaggaga acaccttgat cgccagcctt tgtgacctgc tggagaggat atggagccat
480
ggcttcgagg tcaagcaggg gaagtcggtt ttgtggtcac atttaattcc ttttcaggac
540
agagaagaga accaagagcc ccttcagaaa tcaccagttg ccttcggacc agaaagaaaa
600
aaatctgact caggagttaa gttgccaacg ctcagggtct ctcttattca ggacatgagg
660
catattcaaa acatgagtga gatcaagact gatgttgga gagctcgggc gtggataaga
720
ctgtctctta
729

```

<210> 1176  
 <211> 243  
 <212> PRT  
 <213> Homo sapiens

<400> 1176  
 Asp Arg Thr Ala Ile His Pro His Leu Leu Asp Met Lys Ile Gly Gln  
 1 5 10 15  
 Gly Lys Tyr Glu Gln Gly Phe Phe Pro Lys Leu Gln Ser Asp Val Leu  
 20 25 30  
 Ala Thr Gly Pro Thr Ser Asn Asn Arg Trp Val Ser Arg Ser Ala Thr  
 35 40 45  
 Ala Gln Arg Arg Lys Gly Arg Leu Arg Gln His Ser Glu His Val Gly  
 50 55 60  
 Leu Asp Asn Asp Leu Arg Glu Lys Tyr Met Gln Glu Ala Arg Ser Leu  
 65 70 75 80  
 Gly Lys Asn Leu Arg Gln Pro Lys Leu Ser Asp Leu Ser Pro Ala Val  
 85 90 95  
 Ile Ala Gln Thr Asn Cys Lys Phe Val Glu Gly Leu Leu Lys Glu Cys  
 100 105 110  
 Arg Asn Lys Thr Lys Arg Met Leu Val Glu Lys Met Gly His Glu Ala  
 115 120 125  
 Val Glu Leu Gly His Gly Glu Ala Asn Ile Thr Gly Leu Glu Glu Asn  
 130 135 140  
 Thr Leu Ile Ala Ser Leu Cys Asp Leu Leu Glu Arg Ile Trp Ser His  
 145 150 155 160  
 Gly Leu Gln Val Lys Gln Gly Lys Ser Val Leu Trp Ser His Leu Ile  
 165 170 175  
 Pro Phe Gln Asp Arg Glu Glu Asn Gln Glu Pro Leu Ala Glu Ser Pro  
 180 185 190  
 Val Ala Leu Gly Pro Glu Arg Lys Lys Ser Asp Ser Gly Val Met Leu  
 195 200 205  
 Pro Thr Leu Arg Val Ser Leu Ile Gln Asp Met Arg His Ile Gln Asn  
 210 215 220  
 Met Ser Glu Ile Lys Thr Asp Val Gly Arg Ala Arg Ala Trp Ile Arg  
 225 230 235 240  
 Leu Ser Leu

<210> 1177  
 <211> 581  
 <212> DNA  
 <213> Homo sapiens

<400> 1177  
 acgcgtgatg agttgcgcga gaccagcaac tgcagccgaa tacagttttc ttgtgtaccc  
 60  
 cgtcgcacag ctgcgagagg tgggcattgc cgagtggagg aacgatgtct aaggcggaaa  
 120  
 gctcatcctc ggcagacggg aagactttgt cgtcggggat gttgtcaatg agagcggggg  
 180  
 cgtcgtatctc ggtactgccc atggcgtcat gaaggatcgc gcgatacggg gcgacgaccc  
 240

cgatgagggc gtcgtcgaat ccagcgatga tcgataacctc tctcggtagc acgtccgtgg  
 300  
 ccaacagggtg gtcgacttgg gcgggggcta gccatgtaat tggatccgagc acatggaggg  
 360  
 tggctgccag gaggcggatg gccgggttctg gggcatcttt ggagatcttc agccggacat  
 420  
 cagtggggcag tccggccggg acttggcaga gggcctgggc gggatgggag cgctggggcga  
 480  
 cgacgaaacg ccccgacgcc gtaacgccgt gggcttgag atccgaggtc cacttctctg  
 540  
 ggctttcacc ggcagagatc atggtgtgga ccaccattgt g  
 581

<210> 1178

<211> 192

<212> PRT

<213> Homo sapiens

<400> 1178

Met	Val	Val	His	Thr	Met	Ile	Ser	Ala	Gly	Glu	Ser	Pro	Glu	Lys	Trp
1				5					10				15		
Thr	Cys	Asp	Leu	Gln	Ala	His	Gly	Val	Thr	Ala	Ser	Gly	Arg	Phe	Val
			20				25					30			
Val	Ala	Gln	Arg	Ser	His	Pro	Ala	Gln	Ala	Leu	Cys	Gln	Val	Pro	Ala
	35					40				45					
Gly	Leu	Pro	Thr	Asp	Val	Arg	Leu	Lys	Ile	Ser	Lys	Asp	Ala	Pro	Glu
	50				55					60					
Pro	Ala	Ile	Arg	Leu	Leu	Ala	Ala	Thr	Leu	His	Val	Leu	Gly	Thr	Ile
	65			70				75						80	
Thr	Trp	Leu	Ala	Pro	Ala	Gln	Val	Asp	His	Leu	Leu	Ala	Thr	Asp	Val
			85					90					95		
Leu	Pro	Arg	Glu	Val	Ser	Ile	Ile	Ala	Gly	Phe	Asp	Asp	Ala	Leu	Ile
			100					105					110		
Gly	Val	Val	Ala	Pro	Tyr	Arg	Ala	Ile	Leu	His	Asp	Ala	Met	Gly	Ser
	115					120					125				
Thr	Glu	Ile	Asp	Val	Pro	Ala	Leu	Ile	Asp	Asn	Ile	Pro	Asp	Asp	Lys
	130				135						140				
Val	Phe	Pro	Ser	Ala	Glu	Asp	Glu	Leu	Ser	Ala	Leu	Asp	Ile	Val	Ala
	145				150					155				160	
Ser	Leu	Gly	Asn	Ala	His	Leu	Ser	Gln	Leu	Cys	Asp	Gly	Val	His	Lys
			165						170				175		
Lys	Thr	Val	Phe	Gly	Cys	Ser	Cys	Trp	Ser	Arg	Ala	Thr	His	His	Ala
			180					185					190		

<210> 1179

<211> 597

<212> DNA

<213> Homo sapiens

<400> 1179

gtgcactttc tggcttctaa ctgtggcccc agccctgact ccttgagggtg ctctgtgct  
 60  
 gattggggct tctggacatg ctgccacaag atgtctggaa actccagggg gcacctgccg  
 120

agaccctgcc ctgggaacgg ccggaagaat cccaaaacat gagattccgg tgcagctgag  
 180  
 ccccgccaat tcattgtctc ttctcagtc cttctgaaggc tgcatttggc aatgtgaccc  
 240  
 tcgggggtggg gaaggcacatc gaggaataca ggctatggga cgccagaggc agcgtcctgg  
 300  
 ggacaaagcc cacttcttcc catgcccagg gcttcctcat ggaccacga tgggtggacgt  
 360  
 ggccctcaga cgtccatggg tgggtggggga ggcacgtgct gtttggccct gtctctgctc  
 420  
 agagtctcat aggaagatgc atgggtccaca caacagtgg tgggcaggga gtccaggctt  
 480  
 ccctcccaca ccagtgggtg tgagacgctt gggttataac ccaagatccc ttgtccatt  
 540  
 ggtgctctct gaatctccca cctcccgagg cactgcacg gcctctacct gacgcgt  
 597

<210> 1180  
 <211> 105  
 <212> PRT  
 <213> Homo sapiens

<400> 1180  
 Met Gly Arg Gln Arg Gln Arg Pro Gly Asp Lys Ala His Phe Phe Pro  
 1 5 10 15  
 Cys Pro Gly Leu Pro His Gly Pro Ser Met Val Asp Val Ala Leu Arg  
 20 25 30  
 Arg Pro Trp Val Val Gly Glu Ala Arg Ala Val Trp Pro Cys Leu Cys  
 35 40 45  
 Ser Glu Ser His Arg Lys Met His Gly Pro His Asn Ser Glu Ser Ala  
 50 55 60  
 Gly Ser Pro Gly Phe Pro Ser Gln Pro Val Val Leu Arg Arg Leu Val  
 65 70 75 80  
 Tyr Asn Pro Arg Ser Leu Val Pro Leu Val Pro Pro Glu Ser Pro Thr  
 85 90 95  
 Ser Arg Gly Thr Cys Met Ala Ser Thr  
 100 105

<210> 1181  
 <211> 352  
 <212> DNA  
 <213> Homo sapiens

<400> 1181  
 gtgcactacc tcgatgtttc cccgcgtcag atgggtctccg tggctactgc catgattccg  
 60  
 ttctctgagc acgacgacgc taacctgtcc ctgatgggtg cgaacatgca gcgtcaggct  
 120  
 gtgcgcgtgc tgcgttcgga ggctccgttc gtcgggtaccg gtatggagca gcgtgctgct  
 180  
 tacgacgcgc gcgatgtcat tctgccttcg gccacagggtg tggctcgagac cgtgtcggga  
 240  
 ggcttcatca ccatcatgga cgatgagggc cagcgcacaca cctacctgct gcgcaagttc  
 300

gagcgacacca accagggcac ctgctacaac cagaagccac tgttgacgag gg  
352

<210> 1182

<211> 117

<212> PRT

<213> Homo sapiens

<400> 1182

```
Val Asp Tyr Leu Asp Val Ser Pro Arg Gln Met Val Ser Val Ala Thr
  1             5             10             15
Ala Met Ile Pro Phe Leu Glu His Asp Asp Ala Asn Arg Ala Leu Met
             20             25             30
Gly Ala Asn Met Gln Arg Gln Ala Val Pro Leu Leu Arg Ser Glu Ala
             35             40             45
Pro Phe Val Gly Thr Gly Met Glu Gln Arg Ala Ala Tyr Asp Ala Gly
             50             55             60
Asp Val Ile Val Ala Ser Ala Thr Gly Val Val Glu Thr Val Ser Ala
 65             70             75             80
Gly Phe Ile Thr Ile Met Asp Asp Glu Gln Arg His Thr Tyr Leu
             85             90             95
Leu Arg Lys Phe Glu Arg Thr Asn Gln Gly Thr Cys Tyr Asn Gln Lys
             100            105            110
Pro Leu Leu Thr Arg
             115
```

<210> 1183

<211> 432

<212> DNA

<213> Homo sapiens

<400> 1183

```
gatccttctg ggcgctgggc caagcgcgtg gtgaggccgt cctctcctgc agaaccgcg
 60
cctcttcgcc cctgcccgc cactgttct gtcctgctca cctcctccag gaagcctggc
120
tggccttctc catgctgatg ggcgtggccc ttgtccctgc agccatgc atgacctccg
180
ggctcctgga ggccaggcca cgtcctcctc ccctctgggt gagtgcaggg cacagcctgg
240
gtgcgtgggg ccgtggcggc tccgaggcgc cacgcgtgtg tcctctcatg agtgggtggc
300
gtccaggtct gtcctgggct ggctgcgagg aggaggttgg cctgcgcggg ccatgtgcgt
360
gacagtggag acatcgccag cctcctgctt gcacagctga cggcagcccc tctctctcca
420
gccatgtccc ca
432
```

<210> 1184

<211> 141

<212> PRT

<213> Homo sapiens

&lt;400&gt; 1184

```

Met Ala Gly Glu Arg Gly Ala Ala Val Ser Cys Ala Ser Arg Arg Leu
 1           5           10           15
Ala Met Ser Pro Leu Ser Arg Thr Trp Pro Arg Glu Ala Asn Leu Leu
          20           25           30
Leu Ala Ala Ser Pro Gly Gln Thr Trp Thr Ala Pro Thr His Glu Arg
          35           40           45
Thr Gln Arg Trp Arg Leu Gly Ala Ala Thr Ala Pro Arg Thr Gln Ala
          50           55           60
Val Pro Leu Thr His Pro Glu Gly Met Arg Thr Trp Pro Gly Leu Gln
          65           70           75           80
Glu Pro Arg Arg Ser Met His Gly Cys Arg Asp Lys Gly His Ala His
          85           90           95
Gln His Gly Glu Gly Gln Ala Gly Phe Leu Glu Glu Val Ser Arg Thr
          100          105          110
Glu Gln Val Ser Gly Gln Gly Arg Arg Gly Ser Ala Gly Glu
          115          120          125
Asp Gly Leu Thr Thr Arg Leu Asp Gln Arg Pro Glu Gly
          130          135          140

```

&lt;210&gt; 1185

&lt;211&gt; 423

&lt;212&gt; DNA

&lt;213&gt; Homo sapiens

&lt;400&gt; 1185

```

accggtgaat ttggccttaa cagcgatgga actcctggcc catcttatga acctggcatg
60
gaattaccgcg gcaaatatgt attgttgggt gaaggtgtac ggggctctct atctaaacaa
120
gtcatcaata aataccaatt atccgagggt catgaaccac aaaagttcgg ccttggttta
180
aaagaaattt gggaaataga cccagaaaaa cacaaagaag gcagagtcag tcataccatg
240
ggctggccat taaatggcaa tgctggcggc ggttctttta ttatcatgc agaaaaaat
300
caagtcttta tcggctttgt ggtgcatctt aattacgcc acccttacct atccccctac
360
caagaatttc aacgctttta acaccatccg attatcgcg agctattaac tggcggtaaa
420
cgc
423

```

&lt;210&gt; 1186

&lt;211&gt; 141

&lt;212&gt; PRT

&lt;213&gt; Homo sapiens

&lt;400&gt; 1186

```

Thr Gly Glu Phe Gly Leu Asn Ser Asp Gly Thr Pro Gly Pro Ser Tyr
 1           5           10           15
Glu Pro Gly Met Glu Leu Arg Gly Lys Tyr Val Leu Leu Gly Glu Gly
          20           25           30
Val Arg Gly Ser Leu Ser Lys Gln Val Ile Asn Lys Tyr Gln Leu Ser

```

```

      35              40              45
Glu Gly His Glu Pro Gln Lys Phe Gly Leu Gly Leu Lys Glu Ile Trp
  50              55              60
Glu Ile Asp Pro Glu Lys His Lys Glu Gly Arg Val Ser His Thr Met
  65              70              75
Gly Trp Pro Leu Asn Gly Asn Ala Gly Gly Gly Ser Phe Ile Tyr His
      85              90              95
Ala Glu Asn Asn Gln Val Phe Ile Gly Phe Val Val His Leu Asn Tyr
      100              105              110
Ala Asn Pro Tyr Leu Ser Pro Tyr Gln Glu Phe Gln Arg Phe Lys His
      115              120              125
His Pro Ile Ile Ala Glu Leu Leu Thr Gly Gly Lys Arg
      130              135              140

```

&lt;210&gt; 1187

&lt;211&gt; 387

&lt;212&gt; DNA

&lt;213&gt; Homo sapiens

&lt;400&gt; 1187

```

acgcgtgctg gtgagtttaa attgaatgct gatggtaatt tggtagcagaa ttcaggggct
  60
aagggtccagg gctataatgc aatagatggc atagtcggtg ggaacttaga agatatggta
  120
gtaccacctg ctcgaatttc tctcaagca acatcaagtg ttgattttaa agtgaatcct
  180
aattccgaag gtgaggatgt gccgccttat attcgagcgg accttgatcc agccaatcca
  240
gatactttat actatactca gacccaaacg gttgcggatg ggagtggttaa taatcattta
  300
attagttatt actatgctaa aagtgatgta gcaaatacct atcaggttta tgccacggta
  360
gatgggaagt cgactgatga taccggt
  387

```

&lt;210&gt; 1188

&lt;211&gt; 129

&lt;212&gt; PRT

&lt;213&gt; Homo sapiens

&lt;400&gt; 1188

```

Thr Arg Ala Gly Glu Phe Lys Leu Asn Ala Asp Gly Asn Leu Val Thr
  1              5              10              15
Asn Ser Gly Ala Lys Val Gln Gly Tyr Asn Ala Ile Asp Gly Ile Val
      20              25              30
Gly Gly Asn Leu Glu Asp Met Val Val Pro Thr Ala Arg Ile Ser Pro
      35              40              45
Gln Ala Thr Ser Ser Val Asp Leu Lys Val Asn Leu Asn Ser Glu Gly
      50              55              60
Glu Asp Val Pro Pro Tyr Ile Arg Ala Asp Phe Asp Pro Ala Asn Pro
      65              70              75              80
Asp Thr Tyr Asp Tyr Thr Gln Thr Gln Thr Val Ala Asp Gly Ser Gly
      85              90              95
Asn Asn His Leu Ile Ser Tyr Tyr Tyr Ala Lys Ser Asp Val Ala Asn

```

	100		105		110
Thr Tyr Gln Val Tyr Ala Thr Val Asp Gly Lys Ser Thr Asp Asp Thr					
	115		120		125
Gly					

<210> 1189  
 <211> 330  
 <212> DNA  
 <213> Homo sapiens

<400> 1189  
 tcgatgcgcg accgccccggg ccttgccccc ggcgatgatcg gtggcctgtt ggcagcacc  
 60  
 ctgggtgctg gtttcattgg cggcacgttt gcaggttttc tggccggtta cagcgccaag  
 120  
 gccattgccc gctgggcacg gctgcccagc agcctggatg cgctcaaacc gattctgatc  
 180  
 attctcgtcg tgccagcct gttcactggg ttggtgatga tctactgggt cggccagccg  
 240  
 gtggcgggcca tgctcggagg cctgacacac tttctcgaca gcattgggtac caccaacgcc  
 300  
 attctcctgg gcntgttgct cggcggctag  
 330

<210> 1190  
 <211> 109  
 <212> PRT  
 <213> Homo sapiens

<400> 1190  
 Ser Ile Ala Asp Arg Pro Gly Leu Ala Pro Gly Met Ile Gly Gly Leu  
 1 5 10 15  
 Leu Ala Ser Thr Leu Gly Ala Gly Phe Ile Gly Gly Ile Val Ala Gly  
 20 25 30  
 Phe Leu Ala Gly Tyr Ser Ala Lys Ala Ile Ala Arg Trp Ala Arg Leu  
 35 40 45  
 Pro Ser Ser Leu Asp Ala Leu Lys Pro Ile Leu Ile Ile Ser Leu Leu  
 50 55 60  
 Ala Ser Leu Phe Thr Gly Leu Val Met Ile Tyr Val Val Gly Gln Pro  
 65 70 75 80  
 Val Ala Ala Met Leu Gly Gly Leu Thr His Phe Leu Asp Ser Met Gly  
 85 90 95  
 Thr Thr Asn Ala Ile Leu Leu Gly Xaa Leu Leu Gly Gly  
 100 105

<210> 1191  
 <211> 351  
 <212> DNA  
 <213> Homo sapiens

<400> 1191  
 cggccgacga tgtcgggtga gcaagagatt tggagagcca tgatgacgtc agcagacaaa  
 60

gcaggaggacta acggacagac catgcagaca ccgcccgttg tgctgccgca ggactgggag  
 120  
 gcagcccgtc agcaactgct cgtgaaggaa aaggccgata cccgtgcccc cgacgcactc  
 180  
 gccgcccgaac ggaggcgcat gccgtggatg gaagtgcaca aaacctacgc attcgaggcg  
 240  
 ccttcggggca agggcagctct gctcgatctg ttccaggggcc ggaagcagct gatcctgtac  
 300  
 cgggccttct tcgagccggg cgtgttcggc tggcccggacc atgcctgccg c  
 351

<210> 1192

<211> 114

<212> PRT

<213> Homo sapiens

<400> 1192

Met	Cys	Gly	Glu	Gln	Glu	Ile	Trp	Arg	Ala	Met	Met	Thr	Ser	Ala	Asp
1				5					10					15	
Lys	Ala	Gly	Thr	Asn	Gly	Gln	Thr	Met	Gln	Thr	Pro	Pro	Val	Val	Ser
			20					25					30		
Pro	Gln	Asp	Trp	Glu	Ala	Ala	Arg	Gln	Gln	Leu	Leu	Val	Lys	Glu	Lys
			35				40					45			
Ala	His	Thr	Arg	Ala	Arg	Asp	Ala	Leu	Ala	Ala	Glu	Arg	Arg	Arg	Met
	50				55					60					
Pro	Trp	Met	Glu	Val	Thr	Lys	Thr	Tyr	Ala	Phe	Glu	Ala	Pro	Ser	Gly
65					70				75					80	
Lys	Ala	Ser	Leu	Leu	Asp	Leu	Phe	Gln	Gly	Arg	Lys	Gln	Leu	Ile	Leu
			85					90					95		
Tyr	Arg	Ala	Phe	Phe	Glu	Pro	Gly	Val	Phe	Gly	Trp	Pro	Asp	His	Ala
			100					105					110		

Cys Arg

<210> 1193

<211> 722

<212> DNA

<213> Homo sapiens

<400> 1193

ggatcccagc ctccagatcc catcttgtag ctcttcttct tctacactna ggttgctccc  
 60  
 cgacttagga cgcccagttt gtactcagtg tttgctcttt tatggcagag cctctgcact  
 120  
 cccagcctcc tggccccttc tgtacatgat ttcccttggt gccactccat gcatttttct  
 180  
 tggctcagga cttagtgggc ctccatggga cttgggtacct ctacttggtc cttcttgga  
 240  
 tctgtaactt tgtgttcccc accattcttt cttttatgaa ccgatggtgc aacagcatga  
 300  
 ctacctgaaa ttcttagtca ctccagctg ctttagtgga gggaaaaatgc ccacagcaca  
 360  
 ggaaatagtc ctgcccttcg agagaggcca ggggatggga gcgtgtccag agaagggcga  
 420

tgggttgatg aagggtggcc acagcgcccc ggaggaaggg gccagaacgc tctctgttct  
 480  
 gtcccatgag gaggattatg ttggtgtgtg tagtccctg gttcagagtt gtccagaaat  
 540  
 agctcagtgt aaggaacaat tttccaaaga tcaaaagagc tgtctcaaga tagcagtgcg  
 600  
 ttcccagccc ctacaggtgt atacagcaca aagggaggga ccccttagtg tggctgtcac  
 660  
 agaggggaagt ggacgtcctg tggtttgacc ccaccagatg gctttagaga tctgggcccc  
 720  
 ag  
 722

<210> 1194

<211> 134

<212> PRT

<213> Homo sapiens

<400> 1194

Met	Val	Gln	Gln	His	Asp	Tyr	Leu	Lys	Phe	Leu	Val	Thr	Pro	Ser	Cys
1				5					10					15	
Phe	Ser	Gly	Gly	Lys	Met	Pro	Thr	Ala	Gln	Glu	Ile	Val	Leu	Pro	Phe
			20					25				30			
Glu	Arg	Gly	Gln	Gly	Met	Gly	Ala	Cys	Pro	Glu	Lys	Gly	Asp	Gly	Leu
		35					40				45				
Met	Lys	Gly	Gly	His	Ser	Ala	Arg	Glu	Glu	Gly	Ala	Arg	Thr	Leu	Ser
	50				55						60				
Val	Leu	Phe	His	Glu	Glu	Asp	Tyr	Val	Gly	Val	Cys	Ser	Pro	Leu	Val
65				70					75					80	
Gln	Ser	Cys	Pro	Glu	Ile	Ala	Gln	Cys	Lys	Glu	Gln	Phe	Ser	Lys	Asp
			85						90				95		
Gln	Lys	Ser	Cys	Leu	Lys	Ile	Ala	Val	Arg	Ser	Gln	Pro	Leu	Gln	Val
		100					105					110			
Tyr	Thr	Ala	Gln	Arg	Glu	Gly	Pro	Pro	Ser	Val	Ala	Val	Thr	Glu	Gly
	115					120					125				
Ser	Gly	Arg	Pro	Val	Val										
	130														

<210> 1195

<211> 391

<212> DNA

<213> Homo sapiens

<400> 1195

tctagagcat gatattccgc gggcgcgccc ggggtggactt tggttcgaga gtggaactaa  
 60  
 gtgagtaaat ggggcgggcg gggcagacgc gctcccagcc tccctggcgag agtgctgccc  
 120  
 ggtttcccgg gggcacggga gtgtgtctag gaggggaggg caggatccct cctcaggtcc  
 180  
 tgtcctgaac aaaagaaaac gaggtgggtg gtgcttgaac ggcctgtgtt actctcgaga  
 240  
 tagccgaact ggtaggactc cggcgcgccc tatttatctt gattggctct gcctgaaggc  
 300

aagcgttaat cccgtccaac ctgtatcact gcgaagagct cggtcgggag cgctttttgg  
 360  
 aaatgcagat tcttagcccc caccagatc t  
 391

<210> 1196  
 <211> 102  
 <212> PRT  
 <213> Homo sapiens

<400> 1196  
 Met Gly Ala Ala Arg Pro Asp Ala Leu Pro Ala Ser Trp Arg Glu Cys  
 1 5 10 15  
 Cys Pro Val Ser Arg Gly His Gly Ser Val Ser Arg Arg Gly Gly Gln  
 20 25 30  
 Asp Pro Ser Ser Ser Pro Val Leu Asn Lys Arg Lys Arg Gly Gly Trp  
 35 40 45  
 Cys Leu Asn Gly Pro Val Tyr Ser Ala Asp Ser Arg Thr Gly Arg Thr  
 50 55 60  
 Pro Ala Arg Pro Ile Tyr Leu Asp Trp Leu Cys Leu Lys Ala Ser Val  
 65 70 75 80  
 Asn Pro Val Gln Pro Val Ser Leu Arg Arg Ala Arg Ser Gly Ala Leu  
 85 90 95  
 Phe Gly Asn Ala Asp Ser  
 100

<210> 1197  
 <211> 386  
 <212> DNA  
 <213> Homo sapiens

<400> 1197  
 acgcgtgatg atcatgaaaa tggtagacag cgtctagcag aagtcgcctc tgtgatgggc  
 60  
 tggcagcaag atgaaatcat cggttaacgta caaggggatg aaccttttct gcctgttgca  
 120  
 cttattcatg ccacgggttaa agcgttagcc gatgatgctg aatctgaaa ggccacgatt  
 180  
 gcctgtgcga ttgataacgt agcagagctg ttaacccaa atgtagttaa agtcgtttgt  
 240  
 gatgaaaaac agcgcgcctt gtatttcagt cgtgcgccta tgccatggga ccgtaattgg  
 300  
 tttatggaaa aaacagacga tcaagcggtta ccagcggatt ttcctgcgtt gcgtcatatt  
 360  
 ggtccgtatg tttaccgcac gacatn  
 386

<210> 1198  
 <211> 128  
 <212> PRT  
 <213> Homo sapiens

<400> 1198  
 Thr Arg Asp Asp His Glu Asn Gly Thr Glu Arg Leu Ala Glu Val Ala

```

      1           5           10           15
Ser Val Met Gly Trp Gln Gln Asp Glu Ile Ile Val Asn Val Gln Gly
      20           25           30
Asp Glu Pro Phe Leu Pro Val Ala Leu Ile His Ala Thr Val Lys Ala
      35           40           45
Leu Ala Asp Asp Ala Glu Ser Glu Met Ala Thr Ile Ala Cys Ala Ile
      50           55           60
Asp Asn Val Ala Glu Leu Phe Asn Pro Asn Val Val Lys Val Val Cys
      65           70           75           80
Asp Glu Lys Gln Arg Ala Leu Tyr Phe Ser Arg Ala Pro Met Pro Trp
      85           90           95
Asp Arg Asn Gly Phe Met Glu Lys Thr Asp Asp Gln Ala Leu Pro Ala
      100          105          110
Asp Phe Pro Ala Leu Arg His Ile Gly Pro Tyr Val Tyr Arg Thr Thr
      115          120          125

```

&lt;210&gt; 1199

&lt;211&gt; 318

&lt;212&gt; DNA

&lt;213&gt; Homo sapiens

&lt;400&gt; 1199

```

acgcgttcag cgctcatgtac agccccgggc cgggtcaattt gatgggcctc aatgccgggc
60
ttacggggcaa attcgctcgc tccagcgggt tctacatcgg cgtgggggtgc gcgatgctgc
120
tgatgggtcgg gctgggttggg ctcaccggcg aagcgatcat ctcccaggcg gcgctgccgt
180
atattttttt gattggcggg gtgtacacgc tgtacctcgc ctaccagggtg ttcaccgcac
240
gtaccgaagt ggatgacgcc ccaagcgcg ctcgccaagac cttgaccttc tggaatggcc
300
tggtgatecca gttgctcc
318

```

&lt;210&gt; 1200

&lt;211&gt; 101

&lt;212&gt; PRT

&lt;213&gt; Homo sapiens

&lt;400&gt; 1200

```

Met Tyr Ser Pro Gly Pro Val Asn Leu Met Gly Leu Asn Ala Gly Leu
      1           5           10           15
Thr Gly Lys Leu Arg Arg Ser Ser Gly Phe Tyr Ile Gly Val Gly Cys
      20           25           30
Ala Met Leu Leu Met Val Gly Leu Val Gly Leu Thr Gly Glu Ala Ile
      35           40           45
Ile Ser Gln Ala Ala Leu Pro Tyr Ile Ser Leu Ile Gly Gly Val Tyr
      50           55           60
Thr Leu Tyr Leu Ala Tyr Gln Val Phe Thr Ala Arg Thr Glu Val Asp
      65           70           75           80
Asp Ala Pro Ser Ala Pro Ala Lys Thr Leu Thr Phe Trp Asn Gly Leu
      85           90           95
Val Ile Gln Leu Leu

```

100

<210> 1201  
 <211> 360  
 <212> DNA  
 <213> Homo sapiens

<400> 1201  
 gtcgacgcac aactccagct ggtcgctccc aacagcccga acatccccct ttatcgcgat  
 60  
 atgacatctca ccgtgctgcy catggccaag gatgaccgca accgttgga tgcaaaaatc  
 120  
 acgctgcagg cgatccgcga gctggataac gccttccgcy tgctggaaca gttcaagggc  
 180  
 cgccgcaagg tcacgggtgt tggtcggcg cgcacgccgg tcgaaagccc gctgtacgcc  
 240  
 ttggcaaggg aagtcggcac gctgctggcg caatccgacc tgatggtgat caccggcggt  
 300  
 ggccggcgga tcattggccgc tgcccacgag ggccgaaggt ctggaacaca gcctgggggt  
 360

<210> 1202  
 <211> 120  
 <212> PRT  
 <213> Homo sapiens

<400> 1202  
 Val Asp Ala Gln Leu Gln Leu Val Ala Pro Asn Ser Pro Asn Ile Pro  
 1 5 10 15  
 Leu Tyr Arg Asp Met Ile Leu Thr Val Leu Arg Met Ala Lys Asp Asp  
 20 25 30  
 Arg Asn Arg Trp Asn Ala Lys Ile Thr Leu Gln Ala Ile Arg Glu Leu  
 35 40 45  
 Asp Asn Ala Phe Arg Val Leu Glu Gln Phe Lys Gly Arg Arg Lys Val  
 50 55 60  
 Thr Val Phe Gly Ser Ala Arg Thr Pro Val Glu Ser Pro Leu Tyr Ala  
 65 70 75 80  
 Leu Ala Arg Glu Val Gly Thr Leu Leu Ala Gln Ser Asp Leu Met Val  
 85 90 95  
 Ile Thr Gly Gly Gly Gly Gly Ile Met Ala Ala Ala His Glu Gly Ala  
 100 105 110  
 Arg Ser Gly Thr Gln Pro Gly Gly  
 115 120

<210> 1203  
 <211> 477  
 <212> DNA  
 <213> Homo sapiens

<400> 1203  
 ccggatatgg cagctcgact tcattcgacc agagttcttg gaacatttgg ctatcatgca  
 60  
 cctgagtatg caatgactgg acaacttagc tctaagagtg acgtttacag ttttggagtt  
 120

ggtcttcttg agctcctgac tggagaaaag cctgtggatc ttccattacc aagaggacag  
 180  
 caaagtcttg tgacatgggc aactccacgg ctttgtgaag ataaagttag gcaatgcgtt  
 240  
 gattcaagac ttggagtaga atatcctcct aaatccgttg caaagtttgc agctgttgct  
 300  
 gcaactgttg tgcaatatga agctgacttt cgacccaaca tgagcatcgt ggtgaaggcg  
 360  
 cttcagcccc tgctgaatgc acgtgcatcc aacaaccctg gatgaatgaa tgaatgactg  
 420  
 ccgttgcttt tccctgacga gagtatctga atcagacaat catgtagcat tgaattc  
 477

<210> 1204

<211> 134

<212> PRT

<213> Homo sapiens

<400> 1204

Pro Asp Met Ala Ala Arg Leu His Ser Thr Arg Val Leu Gly Thr Phe  
 1 5 10 15  
 Gly Tyr His Ala Pro Glu Tyr Ala Met Thr Gly Gln Leu Ser Ser Lys  
 20 25 30  
 Ser Asp Val Tyr Ser Phe Gly Val Gly Leu Leu Glu Leu Leu Thr Gly  
 35 40 45  
 Arg Lys Pro Val Asp Leu Pro Leu Pro Arg Gly Gln Gln Ser Leu Val  
 50 55 60  
 Thr Trp Ala Thr Pro Arg Leu Cys Glu Asp Lys Val Arg Gln Cys Val  
 65 70 75 80  
 Asp Ser Arg Leu Gly Val Glu Tyr Pro Pro Lys Ser Val Ala Lys Phe  
 85 90 95  
 Ala Ala Val Ala Ala Leu Cys Val Gln Tyr Glu Ala Asp Phe Arg Pro  
 100 105 110  
 Asn Met Ser Ile Val Val Lys Ala Leu Gln Pro Leu Leu Asn Ala Arg  
 115 120 125  
 Ala Ser Asn Asn Pro Gly  
 130

<210> 1205

<211> 407

<212> DNA

<213> Homo sapiens

<400> 1205

acgcgttgcc attgaagact ggcaattaca cgatttacac atcattgatg ctgcagttga  
 60  
 tgtgcacagg gaaacactag ctaccgtgca gcaggaaatg atgggagaaa tcagccatgg  
 120  
 taacaagaac caagccatcc tggacacaga cggccggggg tgtgcgaacg gaacgttagt  
 180  
 ctatcaatgt gttgcggaac gattcaaggg atgctggccc ccccatcac ttgcccaatc  
 240  
 aagatgtgga gggaaatctgt ctgcgcagaa cctggatctc gtggtgtgac gacgttgtcc  
 300

ccttctcgct cggacgccgc tcatgctcgc ccaagtcgct gagcgagtga caaggtatcc  
 360  
 tgggaccatg cgtatggttt caactgaagc gctggcgaat cgtaaan  
 407

<210> 1206

<211> 103

<212> PRT

<213> Homo sapiens

<400> 1206

Met Met Gly Glu Ile Ser His Gly Asn Lys Asn Gln Ala Ile Leu Asp  
 1 5 10 15  
 Thr Asp Gly Arg Gly Cys Ala Asn Gly Thr Leu Val Tyr Gln Cys Val  
 20 25 30  
 Ala Glu Arg Phe Lys Gly Cys Trp Pro Pro Ser Leu Ala Gln Ser  
 35 40 45  
 Arg Cys Gly Gly Asn Leu Ser Ala Gln Asn Leu Asp Leu Val Val Val  
 50 55 60  
 Arg Arg Cys Pro Leu Leu Ala Arg Thr Pro Leu Met Leu Arg His Val  
 65 70 75 80  
 Ala Glu Arg Val Thr Arg Tyr Pro Gly Thr Met Arg Met Val Ser Thr  
 85 90 95  
 Glu Ala Leu Ala Asn Arg Lys  
 100

<210> 1207

<211> 292

<212> DNA

<213> Homo sapiens

<400> 1207

gctagcatgt cacttttttc ttcagtagat ggccactggag agacattgca ggatgaagag  
 60  
 gcttgccttc attcetatgt gctttcccg ccttgcttct ccagccatgt gtgggacac  
 120  
 cagggtgtgt caccacctag tgagtttcag ggacactcca catgtcccag caagtcttat  
 180  
 cagcatctta gctggcttct caacaagact cagtggcacc cctgtggatg tctcccatca  
 240  
 agtttcatta gtgccccagg gggagactcc cagaaaagttt cagcagcacc ac  
 292

<210> 1208

<211> 95

<212> PRT

<213> Homo sapiens

<400> 1208

Met Ser Leu Phe Ser Ser Val Asp Gly Thr Gly Glu Thr Leu Gln Asp  
 1 5 10 15  
 Glu Glu Ala Cys Leu His Ser Tyr Val Leu Ser Arg Pro Cys Phe Ser  
 20 25 30  
 Ser His Val Trp Asp Asn Gln Gly Cys Ser Pro Pro Ser Glu Phe Gln

	35		40		45
Gly	His Ser Thr Cys	Pro Ser Lys Ser Tyr Gln	His Leu Ser Trp Leu		
50		55	60		
Leu Asn Lys Thr Gln Trp	His Pro Cys Gly Cys	Leu Pro Ser Ser Phe			
65	70	75	80		
Ile Ser Ala Pro Gly	Gly Asp Ser Gln Lys Val	Ser Ala Ala Pro			
85	90	95			

&lt;210&gt; 1209

&lt;211&gt; 431

&lt;212&gt; DNA

&lt;213&gt; Homo sapiens

&lt;400&gt; 1209

ttggttccta taatggcggg agcttacatt ttgctggga tcattatttt gttaatgcat  
 60  
 gccagtggaag ttattccggc aatatcaact attgtcgagt atgcctttac gccagcttct  
 120  
 gcgcagggtg gttttgctgg tgcaacggga tggatggcga ttcgttttgg tgttgcccg  
 180  
 ggtgtatttt caaatgaggc aggtttaggt tcggcgccga tcgctcatgc cagtgcacaa  
 240  
 actaatgaac cggttcgcca agggttgggt gcgatgtag gtactttcct tgatacactt  
 300  
 attatttgta caggtttagt gattgttatt tctggtgctt ggacagaagg attgtcgggt  
 360  
 gctgcggttaa catctgctgc atttaactct gcgttacctg gttggggggg atacttagtc  
 420  
 gctatcagct g  
 431

&lt;210&gt; 1210

&lt;211&gt; 143

&lt;212&gt; PRT

&lt;213&gt; Homo sapiens

&lt;400&gt; 1210

Leu Val Pro Ile Met Ala Val Ala Tyr Ile Phe Ala Gly Ile Ile Ile	
1 5 10 15	
Leu Leu Met His Ala Ser Glu Val Ile Pro Ala Ile Ser Thr Ile Val	
20 25 30	
Glu Tyr Ala Phe Thr Pro Ala Ser Ala Gln Gly Gly Phe Ala Gly Ala	
35 40 45	
Thr Val Trp Met Ala Ile Arg Phe Gly Val Ala Arg Gly Val Phe Ser	
50 55 60	
Asn Glu Ala Gly Leu Gly Ser Ala Pro Ile Ala His Ala Ser Ala Gln	
65 70 75 80	
Thr Asn Glu Pro Val Arg Gln Gly Leu Val Ala Met Leu Gly Thr Phe	
85 90 95	
Leu Asp Thr Leu Ile Ile Cys Thr Gly Leu Val Ile Val Ile Ser Gly	
100 105 110	
Ala Trp Thr Glu Gly Leu Ser Gly Ala Ala Leu Thr Ser Ala Ala Phe	
115 120 125	
Asn Leu Ala Leu Pro Gly Trp Gly Gly Tyr Leu Val Ala Ile Ser	

130

135

140

<210> 1211  
 <211> 480  
 <212> DNA  
 <213> Homo sapiens

<400> 1211  
 gaggaggag gagaggctgg tgagatggag tccagcacc tgcaggagag ccccgaggcc  
 60  
 agagccgaag ctgtgcttct ccatgagatg gatgaagatg atctggccaa tgccttgatc  
 120  
 tggcctgaga ttcaacagga gctgaaaatc attgaatctg aggaggagct ctcacgttg  
 180  
 ccacctcctg ctctgaagac cagcccaatt cagcctattc tcgagtcgag tctggggccc  
 240  
 tttattccct cagagcctcc tgggagcttg cttgtggct cttccctgc tccagtctcc  
 300  
 acccctctgg aggtgtggac tagggatcca gccaatcaga gcacacaggg ggcttccaca  
 360  
 gcagccagca gagagaagcc ggaacctgag cagggcctgc acccagacct cgccagcctg  
 420  
 gctcctctgg aaatagtctc ttttgagaag gcctctccag aggtctggagt gtgctcgcga  
 480

<210> 1212  
 <211> 160  
 <212> PRT  
 <213> Homo sapiens

<400> 1212  
 Glu Glu Gly Arg Glu Ala Gly Glu Met Glu Ser Ser Thr Leu Gln Glu  
 1 5 10 15  
 Ser Pro Arg Ala Arg Ala Glu Ala Val Leu Leu His Glu Met Asp Glu  
 20 25 30  
 Asp Asp Leu Ala Asn Ala Leu Ile Trp Pro Glu Ile Gln Gln Glu Leu  
 35 40 45  
 Lys Ile Ile Glu Ser Glu Glu Glu Leu Ser Ser Leu Pro Pro Pro Ala  
 50 55 60  
 Leu Lys Thr Ser Pro Ile Gln Pro Ile Leu Glu Ser Ser Leu Gly Pro  
 65 70 75 80  
 Phe Ile Pro Ser Glu Pro Pro Gly Ser Leu Pro Cys Gly Ser Phe Pro  
 85 90 95  
 Ala Pro Val Ser Thr Pro Leu Glu Val Trp Thr Arg Asp Pro Ala Asn  
 100 105 110  
 Gln Ser Thr Gln Gly Ala Ser Thr Ala Ala Ser Arg Glu Lys Pro Glu  
 115 120 125  
 Pro Glu Gln Gly Leu His Pro Asp Leu Ala Ser Leu Ala Pro Leu Glu  
 130 135 140  
 Ile Val Pro Phe Glu Lys Ala Ser Pro Glu Ala Gly Val Cys Ser Arg  
 145 150 155 160

<210> 1213  
 <211> 1141

&lt;212&gt; DNA

&lt;213&gt; Homo sapiens

&lt;400&gt; 1213

```

nntcatgatg gcggcctggg gtgtgggtat gtccacgatg ggcgcgctcac gcgtgtcgcc
60
cgtgatgctc aggggcgggt taccgggata gaggggcat cagggcggtt gagttacggc
120
tacaacgagg ctgggtcact catcagcgcg acggggcccc gcacacaaca taactggact
180
cacgacgcct atggccgggt caccagccac gccacatccg gaaccgacac caccttcgcc
240
tgggaccagg aaggccacct ggcgcgagcg tgtacgctg cacacgggca tggcactgcc
300
accagtatc gctatgacgc agcgggacgg cgcgtcagtg cgaccagctc agacggccag
360
gaggtagcgtt actcctggga tggacggggg tggctgtctg acatcaccac cgacgccacg
420
accgtatcga ctacgtcga tgcattgggg cgcgccagtc gtatcaccac taagggccag
480
caggtagcag tggactggga cctcgtgacc ggagccccc cctcgattga tggctcgtct
540
gtgcttcccc tgcccggagg acgcatcctc ggccgcaac ccacgcgga taccaacct
600
tggcgtgagg tcattgccc cgaccctgac aaccttacc agcccgccac ggccactatt
660
gaggggtgccc cagagacgat caggatggcc gggaacacgc tagtggttga tggtcacct
720
tgggtggggg cgccctctac gacccaacta ccaccacctt ctgtctcctt gaccggttaa
780
ccccgcccgc cggcgcgcta tgggccaaca acccctacga ctacgccaac aacaaccccc
840
tcaccctcac cgatcctctc gggaccacac ccgtcacga cgaccaactg gcaactcctca
900
ccacccccat cggcactact gcacactacg tcgccaactc cgtcagcaca ctctgctac
960
acatcaccga tccgatcagc cactgggtggg ccaccacaaa agaccggatc ctctcccggg
1020
acttcctgat cgggtgccggc ctctgctacg gcggtatcgc gtagcggccca cgggcgtagg
1080
aggacccttc ctacggcgcg ccatttccgg ggaactcacc tcaggcggtt tttccgctag
1140
c
1141

```

&lt;210&gt; 1214

&lt;211&gt; 259

&lt;212&gt; PRT

&lt;213&gt; Homo sapiens

&lt;400&gt; 1214

```

Xaa His Asp Gly Gly Leu Val Cys Gly Tyr Val His Asp Gly Arg Val
1           5           10          15
Thr Arg Val Ala Arg Asp Ala Gln Gly Arg Val Thr Gly Ile Glu Gly

```

```

                20                25                30
Pro Ser Gly Arg Trp Ser Tyr Gly Tyr Asn Glu Ala Gly Ser Leu Ile
   35                40                45
Ser Ala Thr Gly Pro Arg Thr Gln His Asn Trp Thr His Asp Ala Tyr
   50                55                60
Gly Arg Leu Thr Ser His Ala Thr Ser Gly Thr Asp Thr Thr Phe Ala
   65                70                75                80
Trp Asp Gln Glu Gly His Leu Ala Gln Thr Cys Thr Arg Ala His Gly
   85                90                95
His Ala Thr Ala Thr Gln Tyr Arg Tyr Asp Ala Ala Gly Arg Arg Val
  100                105                110
Ser Ala Thr Ser Ser Asp Gly Gln Glu Glu Arg Tyr Ser Trp Asp Gly
  115                120                125
Arg Gly Trp Leu Ser Asp Ile Thr Thr Asp Ala Thr Thr Val Ser Thr
  130                135                140
His Val Asp Ala Leu Gly Arg Ala Ser Arg Ile Thr Thr Lys Gly Gln
  145                150                155                160
Gln Val Arg Val Asp Trp Asp Leu Val Thr Gly Ala Pro Thr Ser Ile
  165                170                175
Asp Gly Arg Pro Val Leu Pro Leu Pro Gly Gly Arg Ile Leu Gly Ala
  180                185                190
Thr Pro Ile Gly Asp Thr Asn Leu Trp Arg Glu Val Met Pro Thr Asp
  195                200                205
Pro Asp Asn Pro Tyr Gln Pro Ala Thr Ala Thr Ile Glu Gly Val Pro
  210                215                220
Glu Thr Ile Arg Met Ala Gly Asn Thr Leu Val Val Asp Gly His Pro
  225                230                235                240
Trp Trp Gly Arg Ala Ser Thr Thr Gln Leu Pro Pro Pro Ser Cys Leu
  245                250                255
Leu Thr Arg

```

&lt;210&gt; 1215

&lt;211&gt; 317

&lt;212&gt; DNA

&lt;213&gt; Homo sapiens

&lt;400&gt; 1215

```

acgcgttcgc tgcagatcga gtcgccgggtg agctcgatct acctgtggat gtactacgtg
60
ggcgtgccga catccggcat cgggggggat cccaacctgc ttacctttta ttggaaccgc
120
ccccgggggc aaccgggcca tcaccgggag aacgccgctc ctccggagggg gtgttctcgc
180
agtcgccggc gtgggtgcgt ggaagaagta ccgcggcaac accttcgggc ggctgctccc
240
gtcgtgtgcc ctcggcctcg tgctcgcgtt catcgtgctg aacaaggctg gtcgccgca
300
gtacatcgcc tggatcn
317

```

&lt;210&gt; 1216

&lt;211&gt; 102

&lt;212&gt; PRT

&lt;213&gt; Homo sapiens

&lt;400&gt; 1216

```

Met Tyr Cys Gly Glu Pro Thr Leu Phe Ser Thr Met Asn Ala Ser Thr
 1           5           10           15
Arg Pro Arg Asp Ser Asp Gly Ser Ser Pro Pro Lys Val Val Pro Arg
 20           25           30
Tyr Phe Phe His Ala Pro Thr Pro Ala Thr Ala Arg Thr Pro Pro Pro
 35           40           45
Arg Ser Gly Val Leu Pro Val Met Ala Gly Leu Thr Pro Gly Ala Val
 50           55           60
Pro Ile Lys Gly Lys Gln Val Gly Ile Pro Pro Asp Ala Gly Cys Arg
 65           70           75           80
His Ala His Val Val His Pro Gln Val Asp Arg Ala His Arg Arg Leu
 85           90           95
Asp Leu Gln Arg Thr Arg
100

```

&lt;210&gt; 1217

&lt;211&gt; 548

&lt;212&gt; DNA

&lt;213&gt; Homo sapiens

&lt;400&gt; 1217

```

naccgcgtggg ttgacgcgct attaaacgat aagagcaaaa aaacatttcc tcatttatta
60
cgttgtcggg tgaatgatgt ttctggtgat agtcagtggg tagagatgcg aggcagtggt
120
acagggttggg acagccgtca tcgagctcag atggtgagag ggacattcga cggtattaac
180
catcttattg acgctgaaaa tgaattaatt gcggcccggtg aagatgctca cgcacgagag
240
cttattttat cggttttgc aaataatatt ccagaccctg tttggtctaa agatgaaagc
300
ggtcgttatt tggactgtaa ccatgcgttt tgtctgttta atggtttaga gcagagtga
360
gttcaggggc aaaaagacag tgaattaaac ttagataata atggtcaata ttatcaagat
420
atgggcggtg aggtattagc gcgaggggag atttttcatg aacattgttg gggtacgcct
480
gcagatggaa gtgacaaccg cttgtttgaa gtatatcgag tccctatcaa agagcctacc
540
gtgaattc
548

```

&lt;210&gt; 1218

&lt;211&gt; 182

&lt;212&gt; PRT

&lt;213&gt; Homo sapiens

&lt;400&gt; 1218

```

Xaa Ala Trp Val Asp Ala Leu Leu Asn Asp Lys Ser Lys Lys Thr Phe
 1           5           10           15
Pro His Leu Leu Arg Cys Arg Val Asn Asp Val Ser Gly Asp Ser Gln

```

```

      20      25      30
Trp Ile Glu Met Arg Gly Ser Val Thr Gly Trp Asp Ser Arg His Arg
      35      40      45
Ala Gln Met Val Arg Gly Thr Phe Glu Arg Ile Asn His Leu Ile Asp
      50      55      60
Ala Glu Asn Glu Leu Ile Ala Ala Arg Glu Asp Ala Gln Arg Arg Glu
65      70      75      80
Leu Ile Leu Ser Ala Leu Leu Asn Asn Ile Pro Asp Pro Val Trp Ser
      85      90      95
Lys Asp Glu Ser Gly Arg Tyr Leu Asp Cys Asn His Ala Phe Cys Leu
      100      105      110
Phe Asn Gly Leu Glu Gln Ser Asp Val Gln Gly Gln Lys Asp Ser Glu
      115      120      125
Leu Asn Leu Asp Asn Asn Gly Gln Tyr Tyr Gln Asp Met Gly Gly Glu
      130      135      140
Val Leu Ala Arg Gly Glu Ile Phe His Glu His Cys Trp Gly Thr Pro
145      150      155      160
Ala Asp Gly Ser Asp Asn Arg Leu Phe Glu Val Tyr Arg Val Pro Ile
      165      170      175
Lys Glu Pro Thr Val Asn
      180

```

&lt;210&gt; 1219

&lt;211&gt; 308

&lt;212&gt; DNA

&lt;213&gt; Homo sapiens

&lt;400&gt; 1219

```

acgcgtgaag ggaggaatac agatggagaa atgggtccac caaaaaatga tgagggtacc
60
tccagagaaa attaccaaga ccattctgtt agtattttcc agctccacag gcctttggaa
120
gttcccagac caccctccct cttttcaaac taaaacaggg atgggtctta accaccaccc
180
aaaggcaagg ggggtcttaa aacccaaacc aagtgggggc ggggccagcc tcttcaggag
240
ggcccaaccc tgcagcctct gcccatattgg gaaagaccgt gagttggaat tatgggtcgg
300
tgggggggc
308

```

&lt;210&gt; 1220

&lt;211&gt; 95

&lt;212&gt; PRT

&lt;213&gt; Homo sapiens

&lt;400&gt; 1220

```

Met Glu Lys Trp Val His Gln Lys Met Met Arg Val Pro Pro Glu Lys
1      5      10      15
Ile Thr Lys Thr Ile Leu Leu Val Phe Ser Ser Ser Thr Gly Leu Trp
      20      25      30
Lys Phe Pro Asp His Pro Pro Ser Phe Gln Thr Lys Thr Gly Met Ala
      35      40      45
Leu Asn His His Pro Lys Ala Arg Gly Val Leu Lys Pro Lys Pro Ser

```



&lt;212&gt; DNA

&lt;213&gt; Homo sapiens

&lt;400&gt; 1223

aagcttgctc aggcctagtc cgacgctgct gctctcaaac tcgtcgatgc ccaccgggtg  
 60  
 ttgtgcgctc accgagaggg gccatacggg gtagacgagt ggtctcagcg catggttact  
 120  
 gtactttcag atgtgttgcc tgggtgtggc caaggccggg gggttctcgg cgaactcgca  
 180  
 atagtaacgc ataacctcgc acaattggga gtcaataacg gtgattgcgg ggtcatcggt  
 240  
 gaaacaaggc ccgtcccccac gatagctcta cggggaccgg gtggagtccc cagacgggtg  
 300  
 ccctgttccc tcatcccatc gctgcaaccc ttacaggcga tgacgattca caaagcgagc  
 360  
 ggagccaat tcacggagct aacgggtggc ctgccaccac ccgactcgcc cctcctctct  
 420  
 cgtgagttgc tctataccgc catcacgcgt  
 450

&lt;210&gt; 1224

&lt;211&gt; 150

&lt;212&gt; PRT

&lt;213&gt; Homo sapiens

&lt;400&gt; 1224

Lys Leu Ala Gln Ala Ser Ala Asp Ala Ala Ala Leu Lys Leu Val Asp  
 1 5 10 15  
 Ala His Arg Leu Leu Cys Ala His Arg Glu Gly Pro Tyr Gly Val Asp  
 20 25 30  
 Glu Trp Ser Gln Arg Met Val Thr Val Leu Ser Asp Val Leu Pro Gly  
 35 40 45  
 Val Gly Gln Gly Arg Trp Val Leu Gly Glu Thr Ala Ile Val Thr His  
 50 55 60  
 Asn Leu Ala Gln Leu Gly Val Asn Asn Gly Asp Cys Gly Val Ile Val  
 65 70 75 80  
 Glu Thr Arg Pro Val Pro Thr Ile Ala Leu Pro Gly Pro Gly Gly Val  
 85 90 95  
 Pro Arg Arg Leu Pro Cys Ser Leu Ile Pro Ser Leu Gln Pro Leu Gln  
 100 105 110  
 Ala Met Thr Ile His Lys Ala Gln Gly Ser Gln Phe Thr Asp Val Thr  
 115 120 125  
 Val Val Leu Pro Pro Pro Asp Ser Pro Leu Leu Ser Arg Glu Leu Leu  
 130 135 140  
 Tyr Thr Ala Ile Thr Arg  
 145 150

&lt;210&gt; 1225

&lt;211&gt; 436

&lt;212&gt; DNA

&lt;213&gt; Homo sapiens

&lt;400&gt; 1225

```

ncccatcccc caccgggat ggtgaacact gggatggcca cttgggagct caaagtgttg
60
tcagtgggag gacaaggtcc tcaattcctg gcacattggc ccagagaagt catgaaaaac
120
caaaagcccc cgaaagtaag aagtagaaaa aaacccgacc ccgaccagat gaagggacct
180
gggaagtttt tggaagagag actgctgaag tgtctccttg caggcatcac cgtgagctgg
240
ggctttgcac acagcatctt catggcttcc cacaatgate ccagaactga tccagagaaa
300
cccagggtac aggggttgac ccgacctgt catcatccca ttctacaaat gaggacactg
360
aggcctgggt aaaaggagg ggtggatgga accaggtggc ctggctctaa gaccagagg
420
ctggagtgtg ctcatg
436

```

&lt;210&gt; 1226

&lt;211&gt; 139

&lt;212&gt; PRT

&lt;213&gt; Homo sapiens

&lt;400&gt; 1226

```

Met Val Asn Thr Gly Met Ala Thr Trp Glu Leu Lys Val Leu Ser Val
1 5 10 15
Gly Gly Gln Gly Pro Gln Phe Leu Ala His Trp Pro Arg Glu Val Met
20 25 30
Lys Thr Gln Ser Pro Pro Lys Val Arg Ser Arg Lys Lys Pro Asp Pro
35 40 45
Asp Gln Met Lys Gly Pro Gly Lys Phe Leu Glu Lys Arg Leu Leu Lys
50 55 60
Cys Leu Leu Ala Gly Ile Thr Val Ser Trp Gly Phe Ala His Ser Ile
65 70 75 80
Phe Met Ala Phe His Asn Asp Pro Arg Thr Asp Pro Glu Lys Pro Arg
85 90 95
Asp Gln Gly Leu Thr Arg Pro Cys His His Pro Ile Leu Gln Met Arg
100 105 110
Thr Leu Arg Pro Gly Glu Lys Gly Gly Val Asp Gly Thr Arg Trp Pro
115 120 125
Gly Ser Lys Thr Gln Arg Leu Glu Cys Ala His
130 135

```

&lt;210&gt; 1227

&lt;211&gt; 756

&lt;212&gt; DNA

&lt;213&gt; Homo sapiens

&lt;400&gt; 1227

```

gttgagtccc acgtgaaaca aaatgcactt tacaatagaa tgacgattcg tatcaagat
60
aatgggtattg gaataccgat taacaaggta gataaaatct ttgatagatt ctaccgtgtc
120
gacaaagcac gtacacgtaa gatggggcgt acaggactag gtctagctat ttccaagag
180

```

attgtcgaag cacataatgg ccgtatttgg gcaaatagtg tcgaaggaca aggtacatct  
 240  
 atcttcatta ccctaccatg tgaaattatt gaagatgggtg attgggatga atagtaaaga  
 300  
 atacatcaaa acgattatcc tgatactact tgtattaatg agtatcgtct taacctacat  
 360  
 ggtatggaac ttctcacctg atctatcaaa tgctgatagt acgtcatcag ataataagaa  
 420  
 agataattct aaacctattg gaaaaccaat gaggcgcaaa acggataaaa ccatacaccc  
 480  
 atttcaaatc gttcaatcta atggcgaaaa aacaaaaggt atgccagcaa caggatcatgc  
 540  
 agtatctcaa attttaagcc cattaaaaga taaaaatgtt gattcagtac aacatttaaa  
 600  
 acgaaatcat aacttaatta ttctgaatt aagtataaac tttatcggtc ttgatttcac  
 660  
 atatgatatta ccgttatcaa tttacttaag ccaagtatta aacatagatg ctaagacacc  
 720  
 taatcatttt aactttaate gactactgat tgatca  
 756

<210> 1228

<211> 97

<212> PRT

<213> Homo sapiens

<400> 1228

Val	Glu	Phe	His	Val	Lys	Gln	Asn	Ala	Leu	Tyr	Asn	Arg	Met	Thr	Ile
1				5					10					15	
Arg	Ile	Lys	Asp	Asn	Gly	Ile	Gly	Ile	Pro	Ile	Asn	Lys	Val	Asp	Lys
			20				25						30		
Ile	Phe	Asp	Arg	Phe	Tyr	Arg	Val	Asp	Lys	Ala	Arg	Thr	Arg	Lys	Met
		35				40					45				
Gly	Gly	Thr	Gly	Leu	Gly	Leu	Ala	Ile	Ser	Lys	Glu	Ile	Val	Glu	Ala
		50			55					60					
His	Asn	Gly	Arg	Ile	Trp	Ala	Asn	Ser	Val	Glu	Gly	Gln	Gly	Thr	Ser
65				70					75					80	
Ile	Phe	Ile	Thr	Leu	Pro	Cys	Glu	Ile	Ile	Glu	Asp	Gly	Asp	Trp	Asp
				85				90						95	

Glu

<210> 1229

<211> 377

<212> DNA

<213> Homo sapiens

<400> 1229

nacgcgtcgt gaacgcggcg tcaacagctt ttcggatata cctctgagga gcccaagatg  
 60  
 cttgtgcgcc ccattggcaaa ccaggggggtc gaggccactg gagcgtatggg aaccgacacc  
 120  
 ccgctggccg tgctatctaa ctgtccgcgg atgctctggg actatttcag tcagcttttc  
 180

gctcaggttaa ccaatccgcc cttggacgct atccgcgagg agcttgctac ctcccgtgacg  
 240  
 ggcaccatcg gcccgaggc gaacttgctt gagccttgcc cggaatcatg tcggcaagtg  
 300  
 gtcgtcaact acccgatcat cgattccgac cagcttgcca agatcattca catcgacgct  
 360  
 gacggggagc atccgga  
 377

<210> 1230  
 <211> 121  
 <212> PRT  
 <213> Homo sapiens

<400> 1230  
 Thr Arg Arg Gln Gln Leu Phe Gly Tyr Thr Ser Glu Glu Pro Lys Met  
 1 5 10 15  
 Leu Val Ala Pro Met Ala Asn Gln Gly Val Glu Ala Thr Gly Ala Met  
 20 25 30  
 Gly Thr Asp Thr Pro Leu Ala Val Leu Ser Asn Cys Pro Arg Met Leu  
 35 40 45  
 Trp Asp Tyr Phe Ser Gln Leu Phe Ala Gln Val Thr Asn Pro Pro Leu  
 50 55 60  
 Asp Ala Ile Arg Glu Glu Leu Val Thr Ser Leu Thr Gly Thr Ile Gly  
 65 70 75 80  
 Pro Glu Ala Asn Leu Leu Glu Pro Gly Pro Glu Ser Cys Arg Gln Val  
 85 90 95  
 Val Val Asn Tyr Pro Ile Ile Asp Ser Asp Gln Leu Ala Lys Ile Ile  
 100 105 110  
 His Ile Asp Ala Asp Gly Glu His Pro  
 115 120

<210> 1231  
 <211> 351  
 <212> DNA  
 <213> Homo sapiens

<400> 1231  
 aaatttcatt taaatcaat tgattgctta aataaggcag ttcatctgct gcgccaggag  
 60  
 cggaagtaag gagtttttat ggcggtttta atcaccggag acgccggtta tatcggttct  
 120  
 cacactgttc tggctttggt agaacatggc gaagatgttg tagtggttaga taatttatca  
 180  
 aactcttccg atgagtctct gcgtcgcgtt gagaaactcg cgggtagaag tgctcagttc  
 240  
 taccaaggcg atatcttgga tgctgagtg ctgcatcgca tcttcgaggc tcacgacatc  
 300  
 tcggctgtga tccattttgc tgggctaaa ggtgtcggag agtcgacgcg t  
 351

<210> 1232  
 <211> 91  
 <212> PRT

&lt;213&gt; Homo sapiens

&lt;400&gt; 1232

```

Met Ala Val Leu Ile Thr Gly Asp Ala Gly Tyr Ile Gly Ser His Thr
 1           5           10          15
Val Leu Ala Leu Leu Glu His Gly Glu Asp Val Val Val Leu Asp Asn
 20          25          30
Leu Ser Asn Ser Ser Asp Glu Ser Leu Arg Arg Val Glu Lys Leu Ala
 35          40          45
Gly Arg Ser Ala Gln Phe Tyr Gln Gly Asp Ile Leu Asp Ala Glu Cys
 50          55          60
Leu His Arg Ile Phe Glu Ala His Asp Ile Ser Ala Val Ile His Phe
 65          70          75          80
Ala Gly Leu Lys Gly Val Gly Glu Ser Thr Arg
      85          90

```

&lt;210&gt; 1233

&lt;211&gt; 4982

&lt;212&gt; DNA

&lt;213&gt; Homo sapiens

&lt;400&gt; 1233

```

nnggcttaag cagtggtaac aacgcagagt acgcgggggtg atggcctccc tgaaattaaa
60
catttctatt agtggcttcc cgттаатсtс atccttctta gatcaaacct cgttatatct
120
cctgcctatc tcttttgcат tccaaagttc agttttatta aatcccaggg tctaagattt
180
tttctttgag aatttatctc cagtgtttct atggaaatta aaaaagaaaa ttaggataat
240
tcaatgtcga aatgttgcat gcatcttttg agaaatttat atttgttagg ttgaaggact
300
tgcttttttg gcagcgtatt tttggagggt gaatgtagtt attttaataa ccatgtccta
360
attatttata gcttcctgcc tgacacagct cacttcaaga agtgcaaat gtcagaacgt
420
ggaattaagt gggcttgtga atattgtacg tatgaaaaat ggccatctgc aatcaagtgt
480
accatgtgtc gtgccc aaag acctagtgga acaattatta cagaagatcc atttaaaagt
540
ggttcaagtг atgttggtag agattgggat ccttcagca ccgaaggagg aagtagtcct
600
ttgatatgtc cagactctag tgcaagacca agggtgaaat cttcgtatag catggaaaaat
660
gcaaataagt ggtcatgcca catgtgtaca tatttgaact ggccaagagc aatcagatgt
720
accagtgct tatcccaacg taggaccagg agtcctacag aatctcctca gtcctcagga
780
ctcggctcaa gaccagttgc tttttctgtt gatccttgtg aggaatacaa tgatagaaat
840
aaactgaaca ctaggacaca gactggact tgctctgttt gcacatatga aaactgggcc
900
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960

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 4860  
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 4980  
 aa  
 4982

<210> 1234

<211> 708

<212> PRT

<213> Homo sapiens

<400> 1234

Met Ser Glu Arg Gly Ile Lys Trp Ala Cys Glu Tyr Cys Thr Tyr Glu  
 1 5 10 15  
 Asn Trp Pro Ser Ala Ile Lys Cys Thr Met Cys Arg Ala Gln Arg Pro  
 20 25 30  
 Ser Gly Thr Ile Ile Thr Glu Asp Pro Phe Lys Ser Gly Ser Ser Asp  
 35 40 45  
 Val Gly Arg Asp Trp Asp Pro Ser Ser Thr Glu Gly Gly Ser Ser Pro  
 50 55 60  
 Leu Ile Cys Pro Asp Ser Ser Ala Arg Pro Arg Val Lys Ser Ser Tyr  
 65 70 75 80  
 Ser Met Glu Asn Ala Asn Lys Trp Ser Cys His Met Cys Thr Tyr Leu  
 85 90 95  
 Asn Trp Pro Arg Ala Ile Arg Cys Thr Gln Cys Leu Ser Gln Arg Arg  
 100 105 110  
 Thr Arg Ser Pro Thr Glu Ser Pro Gln Ser Ser Gly Ser Gly Ser Arg  
 115 120 125  
 Pro Val Ala Phe Ser Val Asp Pro Cys Glu Glu Tyr Asn Asp Arg Asn  
 130 135 140  
 Lys Leu Asn Thr Arg Thr Gln His Trp Thr Cys Ser Val Cys Thr Tyr

```

145          150          155          160
Glu Asn Trp Ala Lys Ala Lys Arg Cys Val Val Cys Asp His Pro Arg
      165          170          175
Pro Asn Asn Ile Glu Ala Ile Glu Leu Ala Glu Thr Glu Glu Ala Ser
      180          185          190
Ser Ile Ile Asn Glu Gln Asp Arg Ala Arg Trp Arg Gly Ser Cys Ser
      195          200          205
Ser Gly Asn Ser Gln Arg Arg Ser Pro Pro Ala Thr Lys Arg Asp Ser
      210          215          220
Glu Val Lys Met Asp Phe Gln Arg Ile Glu Leu Ala Gly Ala Val Gly
      225          230          235
Ser Lys Glu Glu Leu Glu Val Asp Phe Lys Lys Leu Lys Gln Ile Lys
      245          250          255
Asn Arg Met Lys Lys Thr Asp Trp Leu Phe Leu Asn Ala Cys Val Gly
      260          265          270
Val Val Glu Gly Asp Leu Ala Ala Ile Glu Ala Tyr Lys Ser Ser Gly
      275          280          285
Gly Asp Ile Ala Arg Gln Leu Thr Ala Asp Glu Val Arg Leu Leu Asn
      290          295          300
Arg Pro Ser Ala Phe Asp Val Gly Tyr Thr Leu Val His Leu Ala Ile
      305          310          315
Arg Phe Gln Arg Gln Asp Met Leu Ala Ile Leu Leu Thr Glu Val Ser
      325          330          335
Gln Gln Ala Ala Lys Cys Ile Pro Ala Met Val Cys Pro Glu Leu Thr
      340          345          350
Glu Gln Ile Arg Arg Glu Ile Ala Ala Ser Leu His Gln Arg Lys Gly
      355          360          365
Asp Phe Ala Cys Tyr Phe Leu Thr Asp Leu Val Thr Phe Thr Leu Pro
      370          375          380
Ala Asp Ile Glu Asp Leu Pro Pro Thr Val Gln Glu Lys Leu Phe Asp
      385          390          395
Glu Val Leu Asp Arg Asp Val Gln Lys Glu Leu Glu Glu Glu Ser Pro
      405          410          415
Ile Ile Asn Trp Ser Leu Glu Leu Ala Thr Arg Leu Asp Ser Arg Leu
      420          425          430
Tyr Ala Leu Trp Asn Arg Thr Ala Gly Asp Cys Leu Leu Asp Ser Val
      435          440          445
Leu Gln Ala Thr Trp Gly Ile Tyr Asp Lys Asp Ser Val Leu Arg Lys
      450          455          460
Ala Leu His Asp Ser Leu His Asp Cys Ser His Trp Phe Tyr Thr Arg
      465          470          475
Trp Lys Asp Trp Glu Ser Trp Tyr Ser Gln Ser Phe Gly Leu His Phe
      485          490          495
Ser Leu Arg Glu Glu Gln Trp Gln Glu Asp Trp Ala Phe Ile Leu Ser
      500          505          510
Leu Ala Ser Gln Pro Gly Ala Ser Leu Glu Gln Thr His Ile Phe Val
      515          520          525
Leu Ala His Ile Leu Arg Arg Pro Ile Ile Val Tyr Gly Val Lys Tyr
      530          535          540
Tyr Lys Ser Phe Arg Gly Glu Thr Leu Gly Tyr Thr Arg Phe Gln Gly
      545          550          555
Val Tyr Leu Pro Leu Leu Trp Glu Gln Ser Phe Cys Trp Lys Ser Pro
      565          570          575
Ile Ala Leu Gly Tyr Thr Arg Gly His Phe Ser Ala Leu Val Ala Met

```

```

      580              585              590
Glu Asn Asp Gly Tyr Gly Asn Arg Gly Ala Gly Ala Asn Leu Asn Thr
595              600              605
Asp Asp Asp Val Thr Ile Thr Phe Leu Pro Leu Val Asp Ser Glu Arg
610              615              620
Lys Leu Leu His Val His Phe Leu Ser Ala Gln Glu Leu Gly Asn Glu
625              630              635              640
Glu Gln Gln Glu Lys Leu Leu Arg Glu Trp Leu Asp Cys Cys Val Thr
645              650              655
Glu Gly Gly Val Leu Val Ala Met Gln Lys Ser Ser Arg Arg Arg Asn
660              665              670
His Pro Leu Val Thr Gln Met Val Glu Lys Trp Leu Asp Arg Tyr Arg
675              680              685
Gln Ile Arg Pro Cys Thr Ser Leu Ser Asp Gly Glu Glu Asp Glu Asp
690              695              700
Asp Glu Asp Glu
705

```

```

<210> 1235
<211> 383
<212> DNA
<213> Homo sapiens

```

```

<400> 1235
gcgtctcagg ccgtgnctca gatacctgtc gatatgacga ccttggggcg tgatttggtg
60
gccttcaccg gtcacaagat gtgcgggtccg acgggtatcg gcattctctg gggacgctat
120
gacctctctg ctgagctacc gcccttcctc ggaggcgccg agatgatcga ggctgtgcgc
180
atggagggat cgacctacgc cgagcctcca catcgttttg aggcaggcac cccgccgatc
240
gcacagctgg ctgccctcgg ggtggccgcc gactacctag atggcatcgg gatgcaggcc
300
atcgccgagc acgaacatga gctggctgct cggatgctcg aagactacca gaccgtcaag
360
ggagtgcagc cggagagagg ctg
383

```

```

<210> 1236
<211> 127
<212> PRT
<213> Homo sapiens

```

```

<400> 1236
Ala Ser Gln Ala Val Xaa Gln Ile Pro Val Asp Met Thr Thr Leu Gly
1          5          10          15
Ala Asp Leu Val Ala Phe Thr Gly His Lys Met Cys Gly Pro Thr Gly
20          25          30
Ile Gly Ile Leu Trp Gly Arg Tyr Asp Leu Leu Ala Glu Leu Pro Pro
35          40          45
Phe Leu Gly Gly Gly Glu Met Ile Glu Val Val Arg Met Glu Gly Ser
50          55          60
Thr Tyr Ala Glu Pro Pro His Arg Phe Glu Ala Gly Thr Pro Pro Ile

```

```

65          70          75          80
Ala Gln Leu Ala Ala Leu Gly Val Ala Ala Asp Tyr Leu Asp Gly Ile
      85          90          95
Gly Met Gln Ala Ile Ala Glu His Glu His Glu Leu Ala Ala Arg Met
      100          105          110
Leu Glu Asp Tyr Gln Thr Val Lys Gly Val Gln Pro Glu Arg Gly
      115          120          125

```

<210> 1237

<211> 1608

<212> DNA

<213> Homo sapiens

<400> 1237

```

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acaccagcac attctgactc aacatggcta tacgggtgtc atcgctgaag aaaggctcaa
120
tgctggccta gggccggggc tactagaaca aggtgatctg ggctcttggt atctgtcat
180
ttgacctgtc tctaagaaag cagaaggaac accctgtata tccaaggaag tcatgtgcca
240
gttaggttta catcaaaagg caaacagatt accagaaata cagcagccac ttgacagaaa
300
ggaaggatta tgtcaaatag ttagaagatt ccagaaactg caacttccag tgagtccttc
360
tgtgtgtctg gatcagggaa tgcaattaaa gccgagtact tcgagtcacc ttttaaaaa
420
agtgaagcca cgtgtgtgga aaccagggga ctggagtcgt gaacagctga atgaaacgac
480
agtccttgct ccacatgaaa caatctttcg agccaaagat ctatctgtga ttcttaaagc
540
gtatgtgttg gtgacgtcct taaccccttt gcgtgcattc attcattcga ctggcacagt
600
ttggaatcca ccaagaaaaa aacgcttcac tgtcaagctg caaacatttt ttgagacatt
660
cctgagagcc agttcacctc aacaggcttt tgacattatg aaggaagcaa ttggcaaaat
720
actgctagcc gctgaagtat tcagtgaaac atctactctg ggaccaaaga ccttccatag
780
atgcagattc tgctttcaac ttctaacttt tgatattggt tatggcagtt tcattgacct
840
tgtagtgctc caggtagacg agcattttaa ttttcaagat tatgataata tggattttga
900
ggaccaaaaa acagaagaat tcctttttaa tgacactttc aattttctct tcctaatga
960
atcatcactt tccatatttt ctgagatatt tcagagactt tatagatcag atgttttcaa
1020
gggtgaaaaa tatcaaaagg aactaaatca gtgtctgtcc ttagaagaaa ttaactcaat
1080
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1140
tactcctggg attcagtcac tgatgcatga attttatgat gtggcaaatc ctgtgggaaa
1200

```

tcctggctca gtcctgaccc aatactgggc tctttttaa gatttgaac aatttcagtt  
 1260  
 catgaataaa aagacacagc cacatccact ggaatggaat tctttcacag aagataagaa  
 1320  
 cattgaaaaa ccacaagtgc catttgatgc aatagaaaaa aaaaaagctg cagttccaca  
 1380  
 aattaaaaat gaaaaataag aaatacattg cagtgatgat gaaaacacac catgtcatat  
 1440  
 caagcagatc ttcacacatc cacatttgga actaaatcct gactttcatc caaagatcaa  
 1500  
 agattattac tgtgaagtcc catttgatgt ggtaacagtg acaattggag tggaaactcc  
 1560  
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 1608

<210> 1238

<211> 458

<212> PRT

<213> Homo sapiens

<400> 1238

Met Cys Gln Leu Gly Leu His Gln Lys Ala Asn Arg Leu Pro Glu Ile  
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 Gln Gln Pro Leu Cys Arg Lys Glu Gly Leu Cys Gln Ile Val Arg Arg  
 20 25 30  
 Phe Pro Glu Leu Gln Leu Pro Val Ser Pro Ser Val Cys Leu Asp Gln  
 35 40 45  
 Gly Met Gln Leu Lys Pro Ser Thr Ser Ser His Leu Leu Lys Thr Val  
 50 55 60  
 Lys Pro Arg Val Trp Lys Pro Gly Asp Trp Ser Arg Glu Gln Leu Asn  
 65 70 75 80  
 Glu Thr Thr Val Leu Ala Pro His Glu Thr Ile Phe Arg Ala Lys Asp  
 85 90 95  
 Leu Ser Val Ile Leu Lys Ala Tyr Val Leu Val Thr Ser Leu Thr Pro  
 100 105 110  
 Leu Arg Ala Phe Ile His Ser Thr Gly Thr Val Trp Asn Pro Pro Lys  
 115 120 125  
 Lys Lys Arg Phe Thr Val Lys Leu Gln Thr Phe Phe Glu Thr Phe Leu  
 130 135 140  
 Arg Ala Ser Ser Pro Gln Gln Ala Phe Asp Ile Met Lys Glu Ala Ile  
 145 150 155 160  
 Gly Lys Leu Leu Leu Ala Ala Glu Val Phe Ser Glu Thr Ser Thr Leu  
 165 170 175  
 Gly Pro Lys Thr Phe His Arg Cys Arg Phe Cys Phe Gln Leu Leu Thr  
 180 185 190  
 Phe Asp Ile Gly Tyr Gly Ser Phe Met Tyr Pro Val Val Leu Gln Val  
 195 200 205  
 His Glu His Leu Asn Phe Gln Asp Tyr Asp Asn Met Asp Phe Glu Asp  
 210 215 220  
 Gln Asn Thr Glu Glu Phe Leu Leu Asn Asp Thr Phe Asn Phe Leu Phe  
 225 230 235 240  
 Pro Asn Glu Ser Ser Leu Ser Ile Phe Ser Glu Ile Phe Gln Arg Leu  
 245 250 255  
 Tyr Arg Ser Asp Val Phe Lys Gly Glu Asn Tyr Gln Lys Glu Leu Asn

```

                260                265                270
Gln Cys Leu Ser Leu Glu Glu Ile Asn Ser Ile Met Thr Phe Ile Lys
      275                280                285
Glu Leu Gly Ser Leu Gly Gln Phe Gln Leu Leu Phe Pro Ser Thr Thr
      290                295                300
Pro Gly Ile Gln Ser Leu Met His Glu Phe Tyr Asp Val Ala Asn Pro
      305                310                315                320
Val Gly Asn Pro Gly Ser Val Leu Thr Gln Tyr Trp Ser Leu Leu Asn
      325                330                335
Val Phe Glu Gln Phe Gln Phe Met Asn Lys Lys Thr Gln Pro His Pro
      340                345                350
Leu Glu Trp Asn Ser Phe Thr Glu Asp Lys Asn Ile Glu Lys Pro Gln
      355                360                365
Val Pro Phe Asp Ala Ile Glu Asn Lys Lys Ala Ala Val Pro Gln Ile
      370                375                380
Lys Asn Glu Asn Lys Glu Ile His Cys Ser Asp Asp Glu Asn Thr Pro
      385                390                395                400
Cys His Ile Lys Gln Ile Phe Thr His Pro His Leu Glu Leu Asn Pro
      405                410                415
Asp Phe His Pro Lys Ile Lys Asp Tyr Tyr Cys Glu Val Pro Phe Asp
      420                425                430
Val Val Thr Val Thr Ile Gly Val Glu Thr Pro Lys Cys Leu Cys Lys
      435                440                445
Val His Leu Tyr Glu Gln Ala Gly Pro Ser
      450                455

```

&lt;210&gt; 1239

&lt;211&gt; 447

&lt;212&gt; DNA

&lt;213&gt; Homo sapiens

&lt;400&gt; 1239

```

atacctactg aacgtgaacg aacagaaagg ctaattaaaa ccaaattaag ggagatcatg
60
atgcagaagg atttgagaa tattacatcc aaagagataa gaacagagtt ggaaatgcaa
120
atgggtgtgca acttgcggga attcaaggaa tttatagaca atgaaatgat agtgcactctt
180
gggtcaaatgg atagccctac acagatatatt gagcatgtgt tcctggggctc agaatggaat
240
gcctccaact tagaggactt acagaaccga ggggtacggg atatcttgaa tgtcactcga
300
gagatagata actttttccc aggagtccttt gagtatcata acattcgggt atatgatgaa
360
gaggcaacgg atctcctggc gtactggaat gacacttaca aattcatctc taaagcaaag
420
aaacatggat ctaaatgcct tgtgcac
447

```

&lt;210&gt; 1240

&lt;211&gt; 149

&lt;212&gt; PRT

&lt;213&gt; Homo sapiens

&lt;400&gt; 1240

```

Ile Pro Thr Glu Arg Glu Arg Thr Glu Arg Leu Ile Lys Thr Lys Leu
 1           5           10           15
Arg Glu Ile Met Met Gln Lys Asp Leu Glu Asn Ile Thr Ser Lys Glu
          20           25           30
Ile Arg Thr Glu Leu Glu Met Gln Met Val Cys Asn Leu Arg Glu Phe
          35           40           45
Lys Glu Phe Ile Asp Asn Glu Met Ile Val Ile Leu Gly Gln Met Asp
          50           55           60
Ser Pro Thr Gln Ile Phe Glu His Val Phe Leu Gly Ser Glu Trp Asn
          65           70           75           80
Ala Ser Asn Leu Glu Asp Leu Gln Asn Arg Gly Val Arg Tyr Ile Leu
          85           90           95
Asn Val Thr Arg Glu Ile Asp Asn Phe Phe Pro Gly Val Phe Glu Tyr
          100          105          110
His Asn Ile Arg Val Tyr Asp Glu Glu Ala Thr Asp Leu Leu Ala Tyr
          115          120          125
Trp Asn Asp Thr Tyr Lys Phe Ile Ser Lys Ala Lys Lys His Gly Ser
          130          135          140
Lys Cys Leu Val His
145

```

&lt;210&gt; 1241

&lt;211&gt; 489

&lt;212&gt; DNA

&lt;213&gt; Homo sapiens

&lt;400&gt; 1241

```

acgcgtgtgc agcgtatcca gcaccgtcct cagaataata gctgtgaaaa ggaggaaggg
60
aactaggcag acagaccgac agataggggg aaaccgggat gtttaatgtg tccgaacaag
120
taggaagatc aatgagggcg gagtgtgtgt gtgtactgtg gcgcgtgtgt gtgtgagaga
180
gagagaaaga aagaagaaag gtccccgattg caacgtgtca gatcttgcaa ctttcccccc
240
accaaacaca acaacctca gacacaaaaa caccattgct gactgatacc ccaggctcttc
300
agggttaaag gaaccgtgtg ttggcagcgc aattgtgcag acgctgtaag gccaaaacga
360
ggattttgtg tgtgaggtcg gtggtgcgtt cttttcttct tcttctcgcc tgttttcccg
420
gagtgctcgg gttgcgagaa aggcgcacgc caggctgtgc agcogaatcg cttcgcaatt
480
attcatgct
489

```

&lt;210&gt; 1242

&lt;211&gt; 127

&lt;212&gt; PRT

&lt;213&gt; Homo sapiens

&lt;400&gt; 1242

```

Met Asn Asn Cys Glu Ala Ile Arg Leu His Ser Leu Arg Cys Ala Phe

```

```

1           5           10           15
Leu Ala Thr Gln Ala Leu Arg Glu Asn Arg Arg Glu Glu Lys Glu Lys
20           25           30
Asn Ala Pro Pro Thr Ser Gln His Lys Ser Ser Phe Trp Pro Tyr Ser
35           40           45
Val Cys Thr Ile Ala Leu Pro Thr His Gly Ser Phe Asn Pro Glu Asp
50           55           60
Leu Gly Tyr Gln Ser Ala Met Val Phe Leu Cys Leu Arg Val Val Val
65           70           75           80
Leu Gly Gly Gly Lys Val Ala Arg Ser Asp Thr Leu Gln Ser Gly Pro
85           90           95
Phe Phe Phe Leu Ser Leu Ser Leu Thr His Thr Arg Ala His Val His
100          105          110
Thr His Thr Arg Ala Ser Leu Ile Phe Leu Leu Val Arg Thr His
115          120          125

```

&lt;210&gt; 1243

&lt;211&gt; 390

&lt;212&gt; DNA

&lt;213&gt; Homo sapiens

&lt;400&gt; 1243

```

ntagactccg tcgatccct catggagaat ccagtgtgcc aggtcccttc ggcgtactgg
60
gagatgatat acctaccggg aatgttcact gtctacttcg atggccagtt ctgggtcggg
120
gtcctagaga ggcgcgacga ggggttgggt cgtgccgtaa aagtcacgtt tggcgcggaa
180
ccgtctgaca cggaattgta cgggtggggt agccgtcatg gcaacgcact tatagagcga
240
ttggagtcta ccgctgctgt ccctaccacc cgcagtcctc gagccaagcg actgaacccc
300
aagagggcgt tacgagatgc agcgcgagct gcccaagcac accgtgccag cagcnccgca
360
caggccgcga ttaaggccga tcaggaagct
390

```

&lt;210&gt; 1244

&lt;211&gt; 130

&lt;212&gt; PRT

&lt;213&gt; Homo sapiens

&lt;400&gt; 1244

```

Xaa Asp Ser Val Asp Pro Leu Met Glu Asn Pro Val Cys Gln Val Pro
1           5           10           15
Ser Ala Tyr Trp Glu Met Ile Tyr Leu Pro Gly Met Phe Thr Val Tyr
20           25           30
Phe Asp Gly Gln Phe Trp Val Gly Val Leu Glu Arg Arg Asp Glu Gly
35           40           45
Leu Val Arg Ala Val Lys Val Thr Phe Gly Ala Glu Pro Ser Asp Thr
50           55           60
Glu Leu Tyr Gly Trp Val Ser Arg His Gly Asn Ala Leu Ile Glu Arg
65           70           75           80
Leu Glu Ser Thr Ala Ala Val Pro Thr Thr Arg Ser Pro Arg Ala Lys

```

```

      85              90              95
Arg Leu Asn Pro Lys Arg Ala Leu Arg Asp Ala Ala Arg Ala Ala Gln
      100              105              110
Ala His Arg Ala Ser Thr Xaa Ala Gln Ala Ala Ile Lys Ala Asp Gln
      115              120              125
Glu Ala
      130

```

```

<210> 1245
<211> 339
<212> DNA
<213> Homo sapiens

```

```

<400> 1245
gccaaagcagc aaaaaccaca gatcattgct atgggaaatg tgtcattttc ttgttcacaa
60
ccacaatcta tgcccgtgac ttttctgagc tccaggagtt ttttagcact gccagacttc
120
tctggagagg aggaggtttc tgccactttt caatttcgaa cttggaataa ggcagggttt
180
ctgctgttca gtgaacttca gctgatttca gggggtatcc tcctctttct gagtgatgga
240
aaacttaagt cgaatctcta ccagccaaga aaattaccca gtgacatcac agcagggtgc
300
gaattaaatg atgggcagtg gcattctgtc tccttatct
339

```

```

<210> 1246
<211> 113
<212> PRT
<213> Homo sapiens

```

```

<400> 1246
Ala Lys Gln Gln Lys Pro Gln Ile Ile Ala Met Gly Asn Val Ser Phe
1      5      10      15
Ser Cys Ser Gln Pro Gln Ser Met Pro Val Thr Phe Leu Ser Ser Arg
      20      25      30
Ser Phe Leu Ala Leu Pro Asp Phe Ser Gly Glu Glu Glu Val Ser Ala
      35      40      45
Thr Phe Gln Phe Arg Thr Trp Asn Lys Ala Gly Leu Leu Leu Phe Ser
      50      55      60
Glu Leu Gln Leu Ile Ser Gly Gly Ile Leu Leu Phe Leu Ser Asp Gly
65      70      75      80
Lys Leu Lys Ser Asn Leu Tyr Gln Pro Arg Lys Leu Pro Ser Asp Ile
      85      90      95
Thr Ala Gly Val Glu Leu Asn Asp Gly Gln Trp His Ser Val Ser Leu
      100      105      110
Ser

```

```

<210> 1247
<211> 366
<212> DNA
<213> Homo sapiens

```

<400> 1247  
 ttgacctcca acccgggcac gcgcatacctg cccagatcc cgatggatgg gcatacctc  
 60  
 aaccgggtgt ggccggacgt cggcctgacg gtgcacccgc cgatgctcta catgggctac  
 120  
 gtcggtttct cgtggcctt tgcgtttgcc atcgccgcct tgcctggcgg gcgcctcgat  
 180  
 gcggcctggg cgcgctggc gcggccatgg accattgtgg cctgggcgtt cctcggtatc  
 240  
 ggtatcacc cgggttcgtg gtgggcctac tacgaactcg gctggngcgg ctggtggttc  
 300  
 tgggaccccg gggaaaacc cttcttcagt ccctggctgg ggggcacccc gctgattcac  
 360  
 tcgctg  
 366

<210> 1248

<211> 122

<212> PRT

<213> Homo sapiens

<400> 1248

Leu	Thr	Ser	Asn	Pro	Gly	Thr	Arg	Ile	Leu	Pro	Gln	Ile	Pro	Met	Asp
1			5						10					15	
Gly	His	Asp	Leu	Asn	Pro	Val	Trp	Arg	Asp	Val	Gly	Leu	Ile	Val	His
		20						25					30		
Pro	Pro	Met	Leu	Tyr	Met	Gly	Tyr	Val	Gly	Phe	Ser	Val	Ala	Phe	Ala
		35					40					45			
Phe	Ala	Ile	Ala	Ala	Leu	Leu	Gly	Gly	Arg	Leu	Asp	Ala	Ala	Trp	Ala
	50					55					60				
Arg	Trp	Ser	Arg	Pro	Trp	Thr	Ile	Val	Ala	Trp	Ala	Phe	Leu	Gly	Ile
	65				70				75					80	
Gly	Ile	Thr	Leu	Gly	Ser	Trp	Trp	Ala	Tyr	Tyr	Glu	Leu	Gly	Trp	Xaa
			85						90					95	
Gly	Trp	Trp	Phe	Trp	Asp	Pro	Gly	Glu	Asn	Pro	Phe	Phe	Met	Pro	Trp
			100					105					110		
Leu	Gly	Gly	Thr	Pro	Leu	Ile	His	Ser	Leu						
		115					120								

<210> 1249

<211> 374

<212> DNA

<213> Homo sapiens

<400> 1249

acgcgtgtcc tcaacaccct ggcgcccacg ctgattgccg tggaaccggt gccggcaatg  
 60  
 ggcgcgacgt tgagcaagct gctgccggat gtgcacctgg tcaatggcac tgccgagggc  
 120  
 attccactgg aaagcgccgt ggcggtatgc gtggtgtgcg cacaagcctt ccattggttt  
 180  
 tccagcgagg cggccctggc ggaatccat cgggtactca aaccggatgg gcgcctgggg  
 240

ctgggtgtgga atgtgcgcga cgagtcgggtg gattgggtcg ccgccattac tcaaatcatc  
 300  
 acgccttatg aaggcgacac gccgcgcttt cataccggcc gttggcgcca agccttcaact  
 360  
 ggcgagtatt ttg  
 374

<210> 1250

<211> 124

<212> PRT

<213> Homo sapiens

<400> 1250

Thr	Arg	Val	Leu	Asn	Thr	Leu	Ala	Pro	Thr	Leu	Ile	Ala	Val	Glu	Pro
1				5					10					15	
Val	Pro	Ala	Met	Gly	Ala	Gln	Leu	Ser	Lys	Leu	Leu	Pro	Asp	Val	His
			20					25					30		
Leu	Val	Asn	Gly	Thr	Ala	Glu	Ala	Ile	Pro	Leu	Glu	Ser	Ala	Val	Ala
		35					40					45			
Asp	Ala	Val	Val	Cys	Ala	Gln	Ala	Phe	His	Trp	Phe	Ser	Ser	Glu	Ala
	50				55						60				
Ala	Leu	Ala	Glu	Ile	His	Arg	Val	Leu	Lys	Pro	Asp	Gly	Arg	Leu	Gly
	65				70					75				80	
Leu	Val	Trp	Asn	Val	Arg	Asp	Glu	Ser	Val	Asp	Trp	Val	Ala	Ala	Ile
			85						90				95		
Thr	Gln	Ile	Ile	Thr	Pro	Tyr	Glu	Gly	Asp	Thr	Pro	Arg	Phe	His	Thr
		100						105					110		
Gly	Arg	Trp	Arg	Glu	Ala	Phe	Thr	Gly	Glu	Tyr	Phe				
		115					120								

<210> 1251

<211> 742

<212> DNA

<213> Homo sapiens

<400> 1251

accggtctct tcctcgga aa ggaggggcgg aggggcttgc ggggcagcca tggaggcgac  
 60  
 gcggaggcgg cagcacgtgg gagcgacggg cggcccaggc gcgcagttgg gcgcctcctt  
 120  
 ccctgcaggc caggcatggc tctgtgagcg ctgatgaggc tgcccgcacg gctcccttcc  
 180  
 acctcgacct ctggtttctac ttcactctgc agaactgggt tctggacttt gggcgctccca  
 240  
 ttgccatgct ggtattccct ctcgagtggg ttccactcaa caagcccagt gttggggact  
 300  
 acttccacat ggcctacaac gtcatacgc cctttctctt gctcaagctc atcgagcggt  
 360  
 cccccccgac cctgctacgc tccatcacgt acgtgagcat catcatcttc atcatgggtg  
 420  
 ccagcatcca cctgggtggg gactctgtca accaccgcct gctcttcagt ggctaccagg  
 480  
 accacctgtc tgctcgtgag aaccccatca tcaagaatct caagccggag acgctgatcg  
 540

actcctttga gctgctctac tattatgatg agtacctggg tcaactgcatg tggatcatcc  
 600  
 ccttcttctc cactctcttc atgtacttca gcggtgctn ttactgcctc taaagctgag  
 660  
 agcttgatgc cagggcctgc cctgctcctg gtggcaccca gtggcctgta ctactggtag  
 720  
 ctggtcaccg agggccagat ct  
 742

<210> 1252

<211> 80

<212> PRT

<213> Homo sapiens

<400> 1252

Met	Arg	Leu	Pro	Ala	Arg	Leu	Pro	Ser	Thr	Ser	Thr	Ser	Gly	Ser	Thr
1				5					10					15	
Ser	His	Cys	Arg	Thr	Gly	Phe	Trp	Thr	Leu	Gly	Val	Pro	Leu	Pro	Cys
			20				25						30		
Trp	Tyr	Ser	Leu	Ser	Ser	Gly	Phe	His	Ser	Thr	Ser	Pro	Val	Leu	Gly
		35				40						45			
Thr	Thr	Ser	Thr	Trp	Pro	Thr	Thr	Ser	Ser	Arg	Pro	Phe	Ser	Cys	Ser
	50					55					60				
Ser	Ser	Ser	Ser	Gly	Pro	Pro	Ala	Pro	Cys	Tyr	Ala	Pro	Ser	Arg	Thr
65					70					75					80

<210> 1253

<211> 675

<212> DNA

<213> Homo sapiens

<400> 1253

gggccccctc ccaggcgctt tctgggagct tttagaactg cgctctgaag tttccagaga  
 60  
 gcgaggagct tttgcccag gcagagacaa tggaagaaaa tgaaagccag aaatgtgagc  
 120  
 cgtgccttcc ttactcagca gacagaagac agatgcagga acaaggcaaa ggcaatctgc  
 180  
 atgtaacatc accagaagat gcagaatgcc gcagaaccaa ggaacgcctt tctaattggaa  
 240  
 acagtctgtg ttcaagttcc aagtcttccc gcaatatccc aaggagacac accctagggg  
 300  
 ggccccgaag ttccaaggaa atactgggaa tgcaaacatc tgagatggat cggaagagag  
 360  
 gaaaaagcgt tcctagaaca tctgaagcag aagtaccccc accacgcctc tgcaatcatg  
 420  
 ggtcaccaag agaggctgag agaccagaca aggateccca aactgtctca cagtctctca  
 480  
 ccaccagctg tgggtgaccc ggtcgagcat ttatcagaga cgtccgctga ttctttggaa  
 540  
 gccatgtctg agggggatgc tccaaccctt tttccagag gcagccggac tcgtgagcag  
 600  
 ctctctgtg tgaggtcaac caaccagacg aaagaaagat ctctgggggt tctctatctc  
 660

cagtatggag atgaa

675

<210> 1254

<211> 86

<212> PRT

<213> Homo sapiens

<400> 1254

```

Met Gly His Gln Glu Arg Leu Arg Asp Gln Thr Arg Ile Pro Lys Leu
 1             5             10             15
Ser His Ser Pro Gln Pro Pro Ser Val Gly Asp Pro Val Glu His Leu
                20             25             30
Ser Glu Thr Ser Ala Asp Ser Leu Glu Ala Met Ser Glu Gly Asp Ala
                35             40             45
Pro Thr Pro Phe Ser Arg Gly Ser Arg Thr Arg Ala Ser Leu Pro Val
                50             55             60
Val Arg Ser Thr Asn Gln Thr Lys Glu Arg Ser Leu Gly Val Leu Tyr
65             70             75             80
Leu Gln Tyr Gly Asp Glu
                        85

```

<210> 1255

<211> 401

<212> DNA

<213> Homo sapiens

<400> 1255

```

ncgccgatta ccaaggctat ggatgtgtgg gccttgggag taacgctata ctgtctgctg
60
ttcgggtcag tgccatttga tgcagagacg gagtacttgc tgctggaaag tatectgcat
120
gacgattatg ccgtcccgcac gcacatgggt agcgaccgcg tgttggtagg cccgcgacca
180
gcacgttggc cctcgtcgca agagacgccc aacgtgccgc tgtccggcga ggcgcatgca
240
gtacgccatc tgctcgatgc ccttctcgac aaggatccag cgacgcgcct cactctcgat
300
cgtgttataa cacacccatg gctcgtggca gagtcattgt aatagtagca attgtatata
360
ccctcatcac caagatggcc aaagcggtag aaggcccgcg g
401

```

<210> 1256

<211> 113

<212> PRT

<213> Homo sapiens

<400> 1256

```

Xaa Pro Ile Thr Lys Ala Met Asp Val Trp Ala Leu Gly Val Thr Leu
 1             5             10             15
Tyr Cys Leu Leu Phe Gly Arg Val Pro Phe Asp Ala Glu Thr Glu Tyr
                20             25             30
Leu Leu Leu Glu Ser Ile Leu His Asp Asp Tyr Ala Val Pro Thr His

```

```

          35              40              45
Met Gly Ser Asp Arg Val Leu Val Gly Pro Arg Pro Ala Arg Trp Pro
   50              55              60
Ser Ser Gln Glu Thr Pro Asn Val Pro Leu Ser Gly Glu Ala His Ala
65              70              75              80
Val Arg His Leu Leu Asp Ala Leu Leu Asp Lys Asp Pro Ala Thr Arg
          85              90              95
Leu Thr Leu Asp Arg Val Ile Thr His Pro Trp Leu Val Ala Glu Ser
          100              105              110
Trp

```

&lt;210&gt; 1257

&lt;211&gt; 294

&lt;212&gt; DNA

&lt;213&gt; Homo sapiens

&lt;400&gt; 1257

```

cggtacagc tgattgaagg tgatgtcgcc aacgccgacc tgggtggcgca agccgccatc
60
ggcgccacgg cgggtggtgca ttggcgagcg gtggcttcgg tgcaagcctc ggtgggatgac
120
ccggtcagca cgcgccagag caatcttctc ggcaacctga atgtctcgca agccatgcgc
180
aaggccgggtg tgaagcgtgt ggtatttctc tccagcgttg cgggtgtatgg caacaatggc
240
gagggcgctt cgattgacga agagaccatc aaggcccccgc tgacgcctta cgcg
294

```

&lt;210&gt; 1258

&lt;211&gt; 98

&lt;212&gt; PRT

&lt;213&gt; Homo sapiens

&lt;400&gt; 1258

```

Arg Val Gln Leu Ile Glu Gly Asp Val Ala Asn Ala Asp Leu Val Ala
1              5              10              15
Gln Ala Ala Ile Gly Ala Thr Ala Val Val His Leu Ala Ala Val Ala
20              25              30
Ser Val Gln Ala Ser Val Asp Asp Pro Val Ser Thr Arg Gln Ser Asn
35              40              45
Phe Val Gly Thr Leu Asn Val Cys Glu Ala Met Arg Lys Ala Gly Val
50              55              60
Lys Arg Val Val Phe Ala Ser Ser Val Ala Val Tyr Gly Asn Asn Gly
65              70              75              80
Glu Gly Ala Ser Ile Asp Glu Glu Thr Ile Lys Ala Pro Leu Thr Pro
85              90              95
Tyr Ala

```

&lt;210&gt; 1259

&lt;211&gt; 417

&lt;212&gt; DNA

&lt;213&gt; Homo sapiens

<400> 1259  
 nnacactcta gcctctgact caaggaagct gccagggtc ttgcccttcg gtttggggg  
 60  
 atcccgcttc ccttcgctcg gagcagacat agtgagaacg tgagaagctg caggcggtggc  
 120  
 ctcaccgtgg tgtgttccaa gatgtccagg gccaaaggat ccgtgtcctc cgggggtggc  
 180  
 agcggtgtgg acgtggctaa gggagtggtc caggggaggc ttgacaccac tcgggtctga  
 240  
 cttacgggca ccaaggaggc ggtgtccagc ggggtcacag gggccatgga catggctaag  
 300  
 ggggccgtcc aagggggctc ggacacctcg aaggctgtcc tcaccggcac caaggacacg  
 360  
 gtgtccactg gggtcacggg ggagtgat gtggccaaag ggcccgtaca ggccggc  
 417

<210> 1260

<211> 133

<212> PRT

<213> Homo sapiens

<400> 1260

Leu	Lys	Glu	Ala	Ala	Gln	Gly	Leu	Ala	Leu	Arg	Phe	Gly	Gly	Ile	Pro
1				5					10					15	
Ser	Pro	Phe	Val	Trp	Ser	Arg	His	Ser	Glu	Asn	Val	Arg	Ser	Cys	Arg
			20				25						30		
Arg	Gly	Leu	Thr	Val	Val	Cys	Ser	Lys	Met	Ser	Arg	Ala	Lys	Asp	Ala
			35				40					45			
Val	Ser	Ser	Gly	Val	Ala	Ser	Val	Val	Asp	Val	Ala	Lys	Gly	Val	Val
			50			55					60				
Gln	Gly	Gly	Leu	Asp	Thr	Thr	Arg	Ser	Ala	Leu	Thr	Gly	Thr	Lys	Glu
			65			70			75					80	
Ala	Val	Ser	Ser	Gly	Val	Thr	Gly	Ala	Met	Asp	Met	Ala	Lys	Gly	Ala
			85					90					95		
Val	Gln	Gly	Gly	Leu	Asp	Thr	Ser	Lys	Ala	Val	Leu	Thr	Gly	Thr	Lys
			100				105						110		
Asp	Thr	Val	Ser	Thr	Gly	Leu	Thr	Gly	Ala	Val	Asn	Val	Ala	Lys	Gly
			115				120								
Pro	Val	Gln	Ala	Gly											
			130												

<210> 1261

<211> 330

<212> DNA

<213> Homo sapiens

<400> 1261

ngtgcacgtg ccgttcggca tcaggagatg aacatggatt tgaacgctga agtcgatcac  
 60  
 ctggtccgcc aatcccagac ctggatcccc ttgatcatgg agtaacggcag ccgcctgctg  
 120tgaccctggc ggtcggtcgg tggatcgaca acaaggctcag cgcccgcctg 180  
 ggcaaacctgg taggcctcgc caacgccgac ctggcactgc aaggttttat cagcaccttg  
 240

tcgaacatcg ggctgaaagt gctgctgttc gtcagtgtgg cgctgatgat cggcattgag  
 300  
 accacctcgt tcgtcgcgga catcggtgct  
 330

<210> 1262  
 <211> 110  
 <212> PRT  
 <213> Homo sapiens

<400> 1262  
 Xaa Ala Arg Ala Val Arg His Gln Glu Met Asn Met Asp Leu Asn Ala  
 1 5 10 15  
 Glu Val Asp Gln Leu Val Arg Gln Ser Gln Thr Trp Ile Pro Leu Ile  
 20 25 30  
 Met Glu Tyr Gly Ser Arg Leu Leu Leu Ala Leu Leu Thr Leu Ala Val  
 35 40 45  
 Gly Trp Trp Ile Asp Asn Lys Val Ser Ala Arg Leu Gly Lys Leu Val  
 50 55 60  
 Gly Leu Arg Asn Ala Asp Leu Ala Leu Gln Gly Phe Ile Ser Thr Leu  
 65 70 75 80  
 Ser Asn Ile Gly Leu Lys Val Leu Leu Phe Val Ser Val Ala Ser Met  
 85 90 95  
 Ile Gly Ile Glu Thr Thr Ser Phe Val Ala Asp Ile Gly Ala  
 100 105 110

<210> 1263  
 <211> 351  
 <212> DNA  
 <213> Homo sapiens

<400> 1263  
 acgcgtggac gatggacttc gtcggtctgc ggtacgacga agggctcaac attgccggtg  
 60  
 gcatcgatga tgagtttgct cgcctgggca acacctagca gcaatggcat cgaatagtc  
 120  
 tgcccagcct gctccatttc gacgacgatg gtcgccgggt tcagtttctt ctcgctccac  
 180  
 gtcaacagac cgtcaccgtg gttgacgatc tcgccggtgg aggcgtcctt gacgacgatc  
 240  
 tggccacgcg ccagggaata catctcccca tccacccaaa agaagcggcc caagctgggg  
 300  
 atcttgccca gcccgatgat cgagagggtt tcaacaagcg actcggggatc c  
 351

<210> 1264  
 <211> 100  
 <212> PRT  
 <213> Homo sapiens

<400> 1264  
 Met Pro Ser Leu Gly Ala Phe Phe Trp Val Asp Gly Glu Met Tyr Ser  
 1 5 10 15  
 Leu Ala Arg Gly Gln Ile Val Val Lys Asp Ala Ser Thr Gly Glu Ile

```

                20                25                30
Val Asn His Gly Asp Gly Leu Leu Thr Trp Ser Glu Lys Lys Leu Asn
      35                40                45
Pro Ala Thr Ile Val Val Glu Met Glu Gln Ala Gly Gln Gly Leu Ser
      50                55                60
Met Pro Leu Leu Leu Gly Val Ala Gln Ala Ser Lys Leu Ile Ile Asp
      65                70                75                80
Ala Thr Gly Asn Val Glu Pro Phe Val Val Pro Gln Thr Asp Glu Val
      85                90                95
His Arg Pro Arg
      100

```

&lt;210&gt; 1265

&lt;211&gt; 318

&lt;212&gt; DNA

&lt;213&gt; Homo sapiens

&lt;400&gt; 1265

```

accggtgtat gcaactgaaa tgctgtccga tatgcttgcg ctccagctcg tgaatcgaaa
60
gttgataaac gctcgcttgg tggaatcgtc gctacggaag cttatcaagg ataccggatgc
120
tgctgcacgc ccaaaattat ggacgcccc cgacccact cgctctgacg ataccattgc
180
acagccgaaa gtgcaaccag cccaagcagt gggagatgac tcgatcatgt cggtcgatga
240
gcctgatgca accgtccatg acatgccact caccacgaca ctcgacaacg tgggtcgctc
300
agatccatcg cgacgcgt
318

```

&lt;210&gt; 1266

&lt;211&gt; 99

&lt;212&gt; PRT

&lt;213&gt; Homo sapiens

&lt;400&gt; 1266

```

Met Leu Ser Asp Met Pro Ala Leu Gln Leu Val Asn Arg Lys Leu Asp
  1                5                10                15
Asn Ala Arg Leu Val Glu Ser Ser Leu Arg Lys Leu Ile Lys Asp Thr
      20                25                30
Asp Ala Ala Ala Pro Pro Lys Leu Trp Thr Pro Pro Asp Pro Thr Arg
      35                40                45
Ser Asp Asp Thr Ile Ala Gln Pro Lys Val Gln Pro Ala Gln Ala Val
      50                55                60
Gly Asp Asp Ser Ile Met Ser Val Asp Glu Pro Asp Ala Thr Val His
      65                70                75                80
Asp Met Pro Leu Thr Thr Thr Leu Asp Asn Val Gly Arg Ser Asp Pro
      85                90                95
Ser Arg Arg

```

&lt;210&gt; 1267

&lt;211&gt; 343

&lt;212&gt; DNA

&lt;213&gt; Homo sapiens

&lt;400&gt; 1267

nggacacttg tgggaaatgc cccacagcct gtgtttttat tccccttggtg aacacttgtg  
 60  
 ggaactgtcc caccgcccgt gtttctgtgc gctgcagac actcgtggga aatgccccac  
 120  
 aacctgtgtt tttgttcccc ttgtgaacac tcgtgggaaa tgcaccacaa cctgtgtttt  
 180  
 tattccccct gtgaacactc gtgggaaatg tcccatggcc cgtgtttccg tgcacctgog  
 240  
 gatactcatc aaacaccagg ctgtcattgg ggacagggtg agctctggct gttggtgcag  
 300  
 catggtagga agagcaccaa gtccctggact ctgttgattt ata  
 343

&lt;210&gt; 1268

&lt;211&gt; 106

&lt;212&gt; PRT

&lt;213&gt; Homo sapiens

&lt;400&gt; 1268

Met	Pro	His	Ser	Leu	Cys	Phe	Tyr	Ser	Pro	Cys	Glu	His	Leu	Trp	Glu
1				5					10				15		
Leu	Ser	His	Gly	Pro	Cys	Phe	Cys	Ala	Pro	Ala	Asp	Thr	Arg	Gly	Lys
			20					25					30		
Cys	Pro	Thr	Thr	Cys	Val	Phe	Val	Pro	Leu	Val	Asn	Thr	Arg	Gly	Lys
			35				40						45		
Cys	Pro	Thr	Thr	Cys	Val	Phe	Ile	Pro	Leu	Val	Asn	Thr	Arg	Gly	Lys
			50				55				60				
Cys	Pro	Met	Ala	Arg	Val	Ser	Val	His	Leu	Arg	Ile	Leu	Ile	Lys	His
65					70				75					80	
Gln	Ala	Val	Ile	Gly	Asp	Arg	Val	Ser	Ser	Gly	Cys	Trp	Cys	Ser	Met
					85				90					95	
Val	Gly	Arg	Ala	Pro	Ser	Pro	Gly	Leu	Cys						
			100					105							

&lt;210&gt; 1269

&lt;211&gt; 391

&lt;212&gt; DNA

&lt;213&gt; Homo sapiens

&lt;400&gt; 1269

tcgcgatccg gacgatcgg tgctgcagat ggctggcgac gccctgctgg gcgcattgog  
 60  
 ggacgcgcgac ctggagcccg ccgccctaga cgggctgac gtccagggtg ggtccccccg  
 120  
 cggcgcggac tacgacacg tgtccgaaac ctttggctt tcgccacaat tctgcagcca  
 180  
 gacctggggc gcacggcccg ttaccgcaa cggtgatcct ggcagcgccc atggcggtgt  
 240  
 ccagcggcct cgcgcggcgg gtggcttgcc tcattggcat gaagaattcg gacctcgggc  
 300

ggttgggtga ggcggaacaat ccctttcatc atgagcaatt ccgggagaat ggcgggccc  
 360  
 acggggaaga ggggttgatc ggcattggcct c  
 391

<210> 1270  
 <211> 110  
 <212> PRT  
 <213> Homo sapiens

<400> 1270  
 Met Met Lys Gly Ile Val Arg Leu Thr Gln Pro Pro Glu Val Arg Ile  
 1 5 10 15  
 Leu His Ala His Glu Ala Ser His Pro Arg Glu Ala Ala Gly His  
 20 25 30  
 Arg His Gly Arg Cys Gln Asp His Arg Cys Gly Glu Pro Ala Val Arg  
 35 40 45  
 Pro Arg Ser Gly Cys Arg Ile Val Ala Lys Asp Gln Arg Phe Arg Thr  
 50 55 60  
 Arg Cys Arg Ser Pro Arg Arg Gly Gly Thr Pro Gly Arg Ser Ala  
 65 70 75 80  
 Arg Leu Gly Arg Pro Ala Pro Gly Arg Arg Pro Ala Met Arg Pro Ala  
 85 90 95  
 Gly Arg Arg Gln Pro Ser Ala Ala Pro Ile Ala Pro Asp Arg  
 100 105 110

<210> 1271  
 <211> 661  
 <212> DNA  
 <213> Homo sapiens

<400> 1271  
 acgcgtcgtt actggccacc tgcgagcgca ccagggtagg cagcactcgg tctccgtcga  
 60  
 accagaaagc gtcattcggg tgggtgaacga gaacgggcga tgggtgtggtg ggacggataa  
 120  
 cccccgggtg cgtcaccata tggcccacta aagagttcac cagggttgat ttaccagccc  
 180  
 cggtcgacc tcctaccacc gccagaagcg gcgcatcaat agtctctaag cgcgggcaaaa  
 240  
 tatagtcgtt aagctgggta gcgatgcgtc gtgccagccc ggcttgagta atagcctccg  
 300  
 gcaaatccaa ggggaactgg gcctgacgca ggttgtgccc gagatcggtc aacgacagca  
 360  
 gtatctgctc agtgttcatt gtgatccttc ctggtcactc gtcaggcctg tggcgggcgcc  
 420  
 cactgcaact cgttgttgac cggctgggtg cgacgtcgct tgaggaatgc gggcagttct  
 480  
 ggcttcgaca atttggcacc tcggggcgacg gtgatagccg ccggggcgag cacgttcata  
 540  
 cgggttgatga gtcgatctg aagcggacca ggatcatcgt ccaaccacag cacaatggcg  
 600  
 tcacgaagat aagcaagatc tgtcccaacg cgcagggaact ctaacgtgtg ccaccacggg  
 660

t

661

&lt;210&gt; 1272

&lt;211&gt; 126

&lt;212&gt; PRT

&lt;213&gt; Homo sapiens

&lt;400&gt; 1272

```

Met Asn Thr Glu Gln Ile Leu Leu Ser Leu Thr Asp Leu Arg His Asn
 1             5             10             15
Leu Arg Gln Ala Gln Phe Pro Leu Asp Leu Pro Glu Ala Ile Thr Gln
      20             25             30
Ala Gly Leu Ala Arg Arg Ile Ala Asn Gln Leu Asn Asp Tyr Ile Leu
 35             40             45
Pro Arg Leu Glu Thr Ile Asp Ala Pro Leu Leu Ala Val Val Gly Gly
 50             55             60
Ser Thr Gly Ala Gly Lys Ser Thr Leu Val Asn Ser Leu Val Gly His
65             70             75             80
Met Val Thr Gln Pro Gly Val Ile Arg Pro Thr Thr Thr Ser Pro Val
      85             90             95
Leu Val His His Pro Asp Asp Ala Phe Trp Phe Asp Gly Asp Arg Val
    100             105             110
Leu Pro Thr Leu Val Arg Ser Gln Val Ala Ser Asn Asp Ala
    115             120             125

```

&lt;210&gt; 1273

&lt;211&gt; 489

&lt;212&gt; DNA

&lt;213&gt; Homo sapiens

&lt;400&gt; 1273

```

gccggcgaga ccgggtccgg aaagaccatg gtggtcaccg gtattggttt gctgctcggc
60
gacaaggctg acatcgatt ggtccggcat ggctcgatc gtgccgtcgt cgaagccgtt
120
ctcgacacgc ctgatgccgg tcgctgcagc gagcttggcg gaacagtcga ggaagggtgag
180
gttatctgcg ctgacacat cacgagtcgt cgctctcgag cgctgcttgg aggagctcaa
240
gttacgcgta gtcagctggc ccacatcggt ggggatcagg tgaccatcca tggccaatct
300
gaacaagtga ggttggtcga cgcagcgccg cagctcgacg tcgttgaccg ggctgccgga
360
gatgagctgg caggctacct aagtcgacat gcacagctgt ggtcggagtt tcgtgctgca
420
tcccagcgtc ttcagcgccct caacgaggat cgcgctgggg ccgagatgga acgcgaggtg
480
cttacgcgt
489

```

&lt;210&gt; 1274

&lt;211&gt; 163

&lt;212&gt; PRT

&lt;213&gt; Homo sapiens

&lt;400&gt; 1274

Ala Gly Glu Thr Gly Ala Gly Lys Thr Met Val Val Thr Gly Ile Gly  
 1 5 10 15  
 Leu Leu Leu Gly Asp Lys Ala Asp Thr Gly Leu Val Arg His Gly Cys  
 20 25 30  
 Asp Arg Ala Val Val Glu Ala Val Leu Asp Thr Pro Asp Ala Gly Arg  
 35 40 45  
 Val Ser Glu Leu Gly Gly Thr Val Glu Asp Gly Glu Val Ile Cys Ala  
 50 55 60  
 Arg His Ile Thr Ser Arg Arg Ser Arg Ala Leu Gly Gly Ala Gln  
 65 70 75 80  
 Val Thr Ala Ser Gln Leu Ala His Ile Val Gly Asp Gln Val Thr Ile  
 85 90 95  
 His Gly Gln Ser Glu Gln Val Arg Leu Val Asp Ala Ala Arg Gln Leu  
 100 105 110  
 Asp Val Val Asp Arg Ala Ala Gly Asp Glu Leu Ala Gly Tyr Leu Ser  
 115 120 125  
 Arg His Ala Gln Leu Trp Ser Glu Phe Arg Ala Ala Ser Gln Arg Leu  
 130 135 140  
 Gln Arg Leu Asn Glu Asp Arg Ala Gly Ala Glu Met Glu Arg Glu Val  
 145 150 155 160  
 Leu Thr Arg

&lt;210&gt; 1275

&lt;211&gt; 384

&lt;212&gt; DNA

&lt;213&gt; Homo sapiens

&lt;400&gt; 1275

nngctagcaa gtgcaagtac gagcaaaagt tatcagcaac agcggggaggc tgaacttctc  
 60  
 gtgcgacggc tagaggggga aatgcacgca cacagcgacc cgaccccgtc gccacaacca  
 120  
 cccgaggatg cagggttgat tgatgttgcc ctgaaagagg cgaagaaagc ctttgatgaa  
 180  
 ggcaaggtcg atctaattgga taaactcaat caggagatac ttgcgctggc aaacgaattc  
 240  
 ggtgcgctcg ggcttgaate tattgagctt ggctccgacg cgaagatggc agtacgcaaa  
 300  
 ggcaaatcaga aatcagcgct cagcaggctg actcccggtg aacgtctcag gctgcgcatt  
 360  
 gctacagcca tcgctgtgtt acgc  
 384

&lt;210&gt; 1276

&lt;211&gt; 128

&lt;212&gt; PRT

&lt;213&gt; Homo sapiens

&lt;400&gt; 1276

Xaa Leu Ala Ser Ala Ser Thr Ser Lys Ser Tyr Gln Gln Gln Arg Glu

```

      1           5           10           15
Ala Glu Leu Leu Val Ala Arg Leu Glu Gly Glu Met His Ala His Ser
      20           25           30
Asp Pro Thr Pro Ser Pro Gln Pro Pro Glu Asp Ala Gly Leu Ile Asp
      35           40           45
Val Ala Leu Lys Glu Ala Lys Lys Ala Phe Asp Glu Gly Lys Val Asp
      50           55           60
Leu Met Asp Lys Leu Asn Gln Glu Ile Leu Arg Leu Ala Asn Glu Phe
      65           70           75           80
Gly Ala Leu Gly Leu Glu Ser Ile Glu Leu Gly Ser Asp Ala Lys Met
      85           90           95
Ala Val Arg Lys Gly Asn Gln Lys Ser Ala Phe Ser Arg Leu Thr Pro
      100          105          110
Gly Glu Arg Leu Arg Leu Arg Ile Ala Thr Ala Ile Ala Leu Leu Arg
      115          120          125

```

&lt;210&gt; 1277

&lt;211&gt; 392

&lt;212&gt; DNA

&lt;213&gt; Homo sapiens

&lt;400&gt; 1277

```

cagtttcagc cccgctgtgt gtccccaatt cctgtctctc ctaccagccg gattcagaac
60
ccagtggcct tctcagctc tgttctgcct tctctccctg ccatcccacc cacaaatgcc
120
atgggggtgc ctagaagtgc accatccatg ccatcccagg gattagcgaa gaaaaataca
180
aagtctcttc aaccagttaa tgatgataac attcgtgaaa ctaagaacgc agtgattcga
240
gacttgggga aaaaaataac tttcagtgat gtcagaccaa accagcagga gtacaaaatt
300
tcaagctttg agcagaggct gatgaatgaa atagagtttc gcttggaaacg tactcctgtt
360
gatgaatcac atgatgaaat tcaacatgat ga
392

```

&lt;210&gt; 1278

&lt;211&gt; 130

&lt;212&gt; PRT

&lt;213&gt; Homo sapiens

&lt;400&gt; 1278

```

Gln Phe Gln Pro Arg Cys Val Ser Pro Ile Pro Val Ser Pro Thr Ser
      1           5           10           15
Arg Ile Gln Asn Pro Val Ala Phe Leu Ser Ser Val Leu Pro Ser Leu
      20           25           30
Pro Ala Ile Pro Pro Thr Asn Ala Met Gly Leu Pro Arg Ser Ala Pro
      35           40           45
Ser Met Pro Ser Gln Gly Leu Ala Lys Lys Asn Thr Lys Ser Pro Gln
      50           55           60
Pro Val Asn Asp Asp Asn Ile Arg Glu Thr Lys Asn Ala Val Ile Arg
      65           70           75           80
Asp Leu Gly Lys Lys Ile Thr Phe Ser Asp Val Arg Pro Asn Gln Gln

```

```

      85              90              95
Glu Tyr Lys Ile Ser Ser Phe Glu Gln Arg Leu Met Asn Glu Ile Glu
      100              105              110
Phe Arg Leu Glu Arg Thr Pro Val Asp Glu Ser His Asp Glu Ile Gln
      115              120              125
His Asp
      130

```

&lt;210&gt; 1279

&lt;211&gt; 297

&lt;212&gt; DNA

&lt;213&gt; Homo sapiens

&lt;400&gt; 1279

```

atggagtcgc agactctccg ccacatgatc gaggacgact gcgccgacaa cggcatccca
60
ctccccaacg tcaactccag gatcctctct aaggtcatcg agtactgcaa cagtcacgct
120
cacgcccgcc ccaaaaccgc tgactccgct gcctccgagg gcggcgagga cctcaagagc
180
tgggacgcga agttcgtaaa ggtggaccag gctacgctct tcgacctcat cctggctgcc
240
aactatctga acatcaaggg attgctggac ctgacctgcc agacgggtgc tgacatg
297

```

&lt;210&gt; 1280

&lt;211&gt; 99

&lt;212&gt; PRT

&lt;213&gt; Homo sapiens

&lt;400&gt; 1280

```

Met Glu Ser Gln Thr Leu Arg His Met Ile Glu Asp Asp Cys Ala Asp
1      5      10      15
Asn Gly Ile Pro Leu Pro Asn Val Asn Ser Arg Ile Leu Ser Lys Val
      20      25      30
Ile Glu Tyr Cys Asn Ser His Val His Ala Ala Ala Lys Pro Ala Asp
      35      40      45
Ser Ala Ala Ser Glu Gly Gly Glu Asp Leu Lys Ser Trp Asp Ala Lys
      50      55      60
Phe Val Lys Val Asp Gln Ala Thr Leu Phe Asp Leu Ile Leu Ala Ala
      65      70      75      80
Asn Tyr Leu Asn Ile Lys Gly Leu Leu Asp Leu Thr Cys Gln Thr Gly
      85      90      95
Ala Asp Met

```

&lt;210&gt; 1281

&lt;211&gt; 515

&lt;212&gt; DNA

&lt;213&gt; Homo sapiens

&lt;400&gt; 1281

```

acgcgtgaag ggggctttgg aggggatggc ttctggactg cacgatgggt gaacacagtt
60

```

ttttaaactc ttttccacat ctgtataggt ttgaaaatta tcaacaactc atggggaggg  
 120  
 tggcgtgccca ggctcatggct gcctggagcc cttctgagga gggccggctc aaccgaggac  
 180  
 gccctcccca ctaccaagta ggcactgcgg gcaggagtcg cccccccac cccaaggaag  
 240  
 ttcagaacag gcaacaggag gagcctgact ccaacagagt tgggtgcatc cggcgcatcg  
 300  
 ctaaggagct cacaacacat caactctggg agcccaaggg ggtgtgtggt ccaactcaagg  
 360  
 ggaagatgat ccagaagctc tgcctccctcc ctttgccttt gaagaacaca ggagtgcacac  
 420  
 gtggggaatc taccggctta atttctctt agtaacaggc atagtaggat caaaaaattt  
 480  
 ttgcttctaa tttttaaaaa cattcaatgt gtaca  
 515

&lt;210&gt; 1282

&lt;211&gt; 135

&lt;212&gt; PRT

&lt;213&gt; Homo sapiens

&lt;400&gt; 1282

Met Gly Glu His Ser Phe Leu Asn Ser Phe Pro His Leu Tyr Arg Phe  
 1 5 10 15  
 Glu Asn Tyr Gln Gln Leu Met Gly Arg Val Ala Cys Gln Val Met Ala  
 20 25 30  
 Ala Trp Ser Pro Ser Glu Glu Gly Arg Leu Asn Arg Gly Arg Pro Pro  
 35 40 45  
 His Tyr Gln Val Gly Thr Ala Gly Arg Ser Arg His Pro His Pro Lys  
 50 55 60  
 Glu Val Gln Asn Arg Gln Gln Glu Glu Pro Asp Ser Asn Arg Val Gly  
 65 70 75 80  
 Val Ile Arg Arg Ile Ala Lys Asp Val Thr Thr His Gln Leu Trp Glu  
 85 90 95  
 Pro Lys Gly Val Cys Gly Pro Leu Lys Gly Lys Met Ile Gln Lys Leu  
 100 105 110  
 Cys Ser Leu Pro Leu Leu Leu Lys Asn Thr Gly Val Thr Arg Gly Glu  
 115 120 125  
 Ser Thr Gly Leu Ile Ser Ser  
 130 135

&lt;210&gt; 1283

&lt;211&gt; 296

&lt;212&gt; DNA

&lt;213&gt; Homo sapiens

&lt;400&gt; 1283

gaattctca caatgaactg cagtgtctgg aggaccagtt gggtagcctt actccgggtc  
 60  
 tccactgcag aacttatata tatatgcttt gtgcacacaa agaaaaacag cagcccaaaa  
 120  
 gaatccggc tggggctctt aggagggagg aaagtccca caggtaacct actggttaat  
 180

tttaaagagc tcaggaaaagg aaggaaggat ggctttttct cttgtgagtc aagacaaggt  
 240  
 cctgatgata accctcccag atcagaacgt aactttcaac ccacgagtgc tgctcn  
 296

<210> 1284

<211> 94

<212> PRT

<213> Homo sapiens

<400> 1284

Met	Asn	Cys	Ser	Val	Trp	Arg	Thr	Ser	Trp	Val	Ala	Leu	Leu	Arg	Val
1				5					10					15	
Ser	Thr	Ala	Glu	Leu	Ile	His	Ile	Cys	Phe	Val	His	Thr	Lys	Lys	Asn
			20					25					30		
Ser	Ser	Pro	Lys	Glu	Ser	Arg	Leu	Gly	Leu	Leu	Gly	Gly	Arg	Lys	Val
		35					40				45				
Pro	Thr	Gly	Asn	Ser	Leu	Val	Asn	Phe	Lys	Glu	Leu	Arg	Lys	Gly	Arg
	50					55					60				
Lys	Asp	Gly	Phe	Phe	Ser	Cys	Glu	Ser	Arg	Gln	Gly	Pro	Asp	Asp	Asn
65					70				75					80	
Pro	Pro	Arg	Ser	Glu	Arg	Asn	Phe	Gln	Pro	Thr	Ser	Ala	Ala		
				85					90						

<210> 1285

<211> 526

<212> DNA

<213> Homo sapiens

<400> 1285

gggccccttc ttacctgccc cttcccctgt ccaccaaccc gtagacaggg agggcaagca  
 60  
 gtgaaaggtc catctagagg aggtaaaaga caggggctgag ggaaaacgcc ttgtacagtc  
 120  
 aggatggcag atgtactctg tcaggaaga cagccccaca gaaaaggctc ggcttgccca  
 180  
 agaagcaaca aaagggattc tacacctcag accaggaggg gggaatgtgt acaaaagattg  
 240  
 gatttactaa attcagagcc acagacttct aggtactctg gtgaagatca gtgctctttc  
 300  
 aaaccacac ttcagaggca ggctttaaaa cgcttgactt ctgtcagggc cacaggctgg  
 360  
 gctgccccaa gctcctacgg ggctggggga tccgagagag gacttcccac tagtccaaga  
 420  
 tgtggtgact agtttcaagc cacagattga ggagcagacc tgatgccctt tcggggccctt  
 480  
 gctaagaacc tgattcgagg aaaaggaagt gaagacagta acgcgt  
 526

<210> 1286

<211> 102

<212> PRT

<213> Homo sapiens

&lt;400&gt; 1286

```

Met Ala Asp Val Leu Cys Gln Gly Arg Gln Pro His Arg Lys Gly Ser
 1           5           10           15
Ala Trp Pro Arg Ser Asn Lys Arg Asp Ser Thr Pro Gln Thr Arg Glu
          20           25           30
Gly Glu Cys Val Gln Arg Leu Asp Leu Leu Asn Ser Glu Pro Gln Thr
 35           40           45
Phe Arg Tyr Phe Gly Glu Asp Gln Cys Ser Phe Lys Pro Thr Leu Gln
 50           55           60
Arg Gln Ala Leu Lys Arg Leu Thr Ser Val Arg Ala Thr Gly Trp Ala
 65           70           75           80
Ala Gln Ser Ser Tyr Gly Ala Gly Gly Ser Glu Arg Gly Leu Pro Thr
          85           90           95
Ser Pro Arg Cys Gly Asp
          100

```

&lt;210&gt; 1287

&lt;211&gt; 333

&lt;212&gt; DNA

&lt;213&gt; Homo sapiens

&lt;400&gt; 1287

```

acgcgtgaag gggagaggca gctccagggtg gagggaagtg catgaggaag cagagaggca
 60
ggcgacaggg agcgtgggtg gggctgggca ggccttcagg ttgtattgca gccagagggt
120
caggtgagaa gaagtacaa caagcaagga agggccccagg aagccactgg ggggtgtttga
180
gccattgaat attctggatt ttaggacatt tctgtggctg actccactgc catcagagtt
240
catccacccc aactccagcc tgagagtgtc ggggcactgg gcaactccgga attcttcaaa
300
gtctgtatgc aacatgtccc cagggtgtct gac
333

```

&lt;210&gt; 1288

&lt;211&gt; 105

&lt;212&gt; PRT

&lt;213&gt; Homo sapiens

&lt;400&gt; 1288

```

Met Leu His Gln Ser Phe Glu Glu Phe Arg Ser Ala Gln Cys Pro Ser
 1           5           10           15
Thr Leu Arg Leu Glu Leu Gly Trp Met Asn Ser Asp Gly Ser Gly Val
          20           25           30
Ser His Arg Asn Val Leu Lys Ser Arg Ile Phe Asn Gly Ser Asn Thr
 35           40           45
Pro Ser Gly Phe Leu Gly Pro Ser Leu Leu Val Val Pro Ser Ser His
 50           55           60
Leu Thr Ser Gly Leu Gln Ser Asn Trp Lys Ala Cys Pro Ala Pro Ala
 65           70           75           80
Thr Leu Pro Val Ala Cys Leu Ser Ala Ser Ser Cys Thr Ser Leu His
          85           90           95
Leu Glu Leu Pro Leu Pro Phe Thr Arg

```

100

105

<210> 1289  
 <211> 336  
 <212> DNA  
 <213> Homo sapiens

<400> 1289  
 accggtgtct gtgtacaggt ggaaggggat gggatatgaga tgggtcagcg tgtgcatggg  
 60  
 caccggcgat ggtgtgtgag tgcactcgtg tgccggagag ctgtaagctg ctggctgagt  
 120  
 cctgcacggt ggaggaggca aggtggcccc tgcctgtggg cacagagccc accttccggt  
 180  
 ccagcccagag gcccttttcc cagagcccc tccaaggagg ccataaccacc tgcattccca  
 240  
 agatggcgctg gggcgctccct ggtgcaggag caggggacag tcagggaggc gtgtggcgga  
 300  
 cagtagcagc cccccagccc ccctcccccc accggt  
 336

<210> 1290  
 <211> 89  
 <212> PRT  
 <213> Homo sapiens

<400> 1290  
 Met Val Cys Glu Cys Thr Arg Val Pro Glu Ser Cys Lys Leu Leu Ala  
 1 5 10 15  
 Glu Ser Cys Thr Val Glu Glu Ala Arg Trp Pro Leu Pro Val Gly Thr  
 20 25 30  
 Glu Pro Thr Phe Arg Ser Ser Pro Arg Pro Leu Ser Gln Ser Pro Leu  
 35 40 45  
 Pro Arg Gly His Thr Thr Cys Ile Pro Lys Met Ala Trp Gly Val Pro  
 50 55 60  
 Gly Ala Gly Ala Gly Asp Ser Gln Gly Gly Val Trp Arg Thr Val Ala  
 65 70 75 80  
 Ala Pro Gln Pro Pro Ser Pro His Arg  
 85

<210> 1291  
 <211> 379  
 <212> DNA  
 <213> Homo sapiens

<400> 1291  
 tggccatcca cctctgtcag ctgttccggc aacccattca gatcattgtg gtagtaacga  
 60  
 atcttcttgca acggcccggc accgtccacg cgagccagag gttgatagcc ttcattctca  
 120  
 taaacgtaca ggcttgtctg gctgtgttta tgctcctgca ataaccgcaa accatcccg  
 180  
 gtaaacgggg tttcccccaa cggataccca tcaactgccat gctcggtttt ttctatccga  
 240

cgccccagcg ggcatatacac catcctgacc acgctaccat cgtcattacg cacttcaacc  
 300  
 agccggcttt cagcgtcata cgcaaaccgc tgcacgccac gcttggcact gcgcttctcg  
 360  
 accatccgcc caaacgcgt  
 379

<210> 1292  
 <211> 121  
 <212> PRT  
 <213> Homo sapiens

<400> 1292  
 Met Val Glu Lys Arg Ser Ala Lys Arg Gly Val Gln Arg Phe Ala Tyr  
 1 5 10 15  
 Asp Ala Glu Ser Arg Leu Val Glu Val Arg Asn Asp Asp Gly Ser Val  
 20 25 30  
 Val Arg Met Val Tyr Asp Pro Leu Gly Arg Arg Ile Glu Lys Thr Glu  
 35 40 45  
 His Gly Ser Asp Gly Tyr Pro Leu Gly Glu Thr Arg Phe Thr Trp Asp  
 50 55 60  
 Gly Leu Arg Leu Leu Gln Glu His Lys His Ser Gln Thr Ser Leu Tyr  
 65 70 75 80  
 Val Tyr Glu Asp Glu Gly Tyr Gln Pro Leu Ala Arg Val Asp Gly Ala  
 85 90 95  
 Gly Pro Leu Gln Lys Ile Arg Tyr Tyr His Asn Asp Leu Asn Gly Leu  
 100 105 110  
 Pro Glu Gln Leu Thr Glu Val Asp Gly  
 115 120

<210> 1293  
 <211> 340  
 <212> DNA  
 <213> Homo sapiens

<400> 1293  
 nngccggcgc ccgagagct gttcgaggcg tgccgcaacg gggacgtgga acgagtcgaag  
 60  
 aggctggtga cgcttgagaa ggtgaacagc cgcgacacgg cgggcaggaa atccaccccg  
 120  
 ctgcacttgc ccgcagggtt tgggcggaaa gacgtagttg aatatttctc tcagaatggt  
 180  
 gcaaatgtcc aagcacgtga tgatgggggc cttatttcctc ttcataatgc atgctctttt  
 240  
 ggtcatgctg aagtagtcaa tctctctttg cgacatggtg cagaccccaa tgcttgagat  
 300  
 aattggaatt atactcctag aggggtggagt gtgctcgcga  
 340

<210> 1294  
 <211> 98  
 <212> PRT  
 <213> Homo sapiens

&lt;400&gt; 1294

Xaa Pro Ala Ala Arg Glu Leu Phe Glu Ala Cys Arg Asn Gly Asp Val  
 1 5 10 15  
 Glu Arg Val Lys Arg Leu Val Thr Pro Glu Lys Val Asn Ser Arg Asp  
 20 25 30  
 Thr Ala Gly Arg Lys Ser Thr Pro Leu His Phe Ala Ala Gly Phe Gly  
 35 40 45  
 Arg Lys Asp Val Val Glu Tyr Leu Leu Gln Asn Gly Ala Asn Val Gln  
 50 55 60  
 Ala Arg Asp Asp Gly Gly Leu Ile Pro Leu His Asn Ala Cys Ser Phe  
 65 70 75 80  
 Gly His Ala Glu Val Val Asn Leu Leu Leu Arg His Gly Ala Asp Pro  
 85 90 95  
 Asn Ala

&lt;210&gt; 1295

&lt;211&gt; 351

&lt;212&gt; DNA

&lt;213&gt; Homo sapiens

&lt;400&gt; 1295

ggatcccga gacctcgctcg gcgaacgtca cctcgctccag ggccgaggcg cggaacaccg  
 60  
 acgtgtcgat gccctcgccc tcgatgcagt cggtcagcgg tacgacggcg ccgcgggagg  
 120  
 cgaaggtgcc gatctggctg cgctcggcgt agaccagcga cggcgggttcg cccgacgccca  
 180  
 cggaggagag gaactgctgg atgtcgaggt caccctcgat cagcttgacc ttggcgctcg  
 240  
 cgagctcctc cttcgcccg tcgagccgca ccgtcgcgat ctgctgcccg gcaccgaagc  
 300  
 ccatcacctc gacctcgccg gagagcttcg ccccgctgtc gaaagacgcg t  
 351

&lt;210&gt; 1296

&lt;211&gt; 75

&lt;212&gt; PRT

&lt;213&gt; Homo sapiens

&lt;400&gt; 1296

Gly Ser Arg Arg Pro Arg Arg Arg Thr Ser Pro Arg Pro Gly Pro Arg  
 1 5 10 15  
 Arg Gly Thr Pro Thr Cys Arg Cys Pro Arg Pro Arg Cys Ser Arg Ser  
 20 25 30  
 Ala Val Arg Arg Arg Arg Gly Arg Arg Arg Cys Arg Ser Gly Cys Ala  
 35 40 45  
 Arg Arg Arg Pro Ala Thr Ala Val Arg Pro Thr Pro Arg Arg Arg Gly  
 50 55 60  
 Thr Ala Gly Cys Arg Gly His Pro Arg Ser Ala  
 65 70 75

&lt;210&gt; 1297

&lt;211&gt; 356

&lt;212&gt; DNA

&lt;213&gt; Homo sapiens

&lt;400&gt; 1297

gtgcacccgg attcccatgt ccaccgactt cgagtaaact ccagtcccga ggacacgaga  
 60  
 gacacccagg cctcaggccc catgggcacg ctccacgcca cggctcctac cagagggaca  
 120  
 gatacactct acaaatctcg gggcccacca caccaagaag acacggagga gccaaacaaa  
 180  
 gaaggaccat acgaaatgca cccccaaagc aaccaaccaa tccaagaaaa aatacgtctc  
 240  
 agggttctgt gggccctctt gcatgggctg cctgcccccc ctgttctggc ctggtcgaag  
 300  
 caccttacc cagcctgctc gaaagagccc tggctaccag agcagagcac tggcct  
 356

&lt;210&gt; 1298

&lt;211&gt; 91

&lt;212&gt; PRT

&lt;213&gt; Homo sapiens

&lt;400&gt; 1298

Met	Gly	Thr	Leu	His	Ala	Thr	Ala	Pro	Thr	Arg	Gly	Thr	Asp	Thr	Leu
1				5					10				15		
Tyr	Lys	Ser	Arg	Gly	Pro	Pro	His	Gln	Glu	Asp	Thr	Glu	Glu	Pro	Thr
			20					25				30			
Lys	Glu	Gly	Pro	Tyr	Glu	Met	His	Pro	Gln	Ser	Asn	Gln	Pro	Ile	Gln
		35					40				45				
Glu	Lys	Ile	Arg	Leu	Arg	Val	Leu	Trp	Ala	Leu	Leu	His	Gly	Leu	Pro
		50				55				60					
Cys	Pro	Pro	Val	Leu	Ala	Trp	Leu	Lys	His	Leu	Thr	Pro	Ala	Cys	Ser
65				70					75					80	
Lys	Glu	Pro	Trp	Leu	Pro	Glu	Gln	Ser	Thr	Gly					
			85						90						

&lt;210&gt; 1299

&lt;211&gt; 307

&lt;212&gt; DNA

&lt;213&gt; Homo sapiens

&lt;400&gt; 1299

ggatccactt ctaagatgtc tcaactcacgt ggtgatggca gcaggcctca gactctgggtg  
 60  
 gttgttgcca ggtgtctca gttccttgcc atgtgggtct ctacacaggg cagcttctctg  
 120  
 tgtctttgcc atatggcaac tgagaatgat cttggctacc ttctccagcc cgaggatcgg  
 180  
 gagttttctg ggggtgggtc acgggtcttg cccggagttc gccctggcaa aggcctgtgc  
 240  
 cagtgatect ggagcggagc gaagtgttc cgtgactctg cagccgcagt tcttagggct  
 300  
 tccttag  
 307

&lt;210&gt; 1300

&lt;211&gt; 90

&lt;212&gt; PRT

&lt;213&gt; Homo sapiens

&lt;400&gt; 1300

```

Met Ala Ala Gly Leu Arg Leu Trp Trp Leu Leu Ala Gly Cys Leu Ser
 1             5             10             15
Ser Leu Pro Cys Gly Ser Leu His Arg Ala Ala Ser Cys Val Phe Ala
      20             25             30
Ile Trp Gln Leu Arg Met Ile Leu Ala Thr Phe Ser Ser Pro Gly Val
      35             40             45
Gly Ser Phe Leu Gly Trp Gly His Gly Ser Cys Pro Glu Phe Ala Leu
      50             55             60
Ala Lys Ala Cys Ala Ser Asp Pro Gly Ala Glu Arg Ser Val Ser Val
      65             70             75             80
Thr Leu Gln Pro Gln Phe Leu Gly Leu Pro
              85             90

```

&lt;210&gt; 1301

&lt;211&gt; 408

&lt;212&gt; DNA

&lt;213&gt; Homo sapiens

&lt;400&gt; 1301

```

ctgagcaagt taaaagaagt tcttgaattt tataacttta ttttgacaaa ctattataaa
60
gttgagccta tttcctttga tgcagtatac gctgaagggtt tggaaatggc tgagttccttg
120
cgccctatgg tgtcagatac gattacactt ttgcatgacc ttagaaggtc tggcgcaaac
180
atcatgtttg aaggcgcgca agggctcttg ttggatgttg atcatggtac ttacccgat
240
gtgacttcat ctaatacgac tgcgggcgga gcgcagcggg gaacagggtt tggtcctttg
300
tacttagatt atgtattagg tataactaag gcttatacga ctgcggttgg ttctggacct
360
ttccctactg agttgtttga cgaagatggt gagcgtcttg gtacgcgt
408

```

&lt;210&gt; 1302

&lt;211&gt; 136

&lt;212&gt; PRT

&lt;213&gt; Homo sapiens

&lt;400&gt; 1302

```

Leu Ser Lys Leu Lys Glu Val Leu Glu Phe Tyr Asn Phe Ile Leu Thr
 1             5             10             15
Asn Tyr Tyr Lys Val Glu Pro Ile Ser Phe Asp Ala Val Tyr Ala Glu
      20             25             30
Gly Leu Glu Met Ala Glu Phe Leu Arg Pro Met Val Ser Asp Thr Ile
      35             40             45
Thr Leu Leu His Asp Leu Arg Arg Ser Gly Ala Asn Ile Met Phe Glu

```

50	55	60
Gly Ala Gln Gly Ser Leu Leu Asp Val Asp His Gly Thr Tyr Pro Tyr		
65	70	75
Val Thr Ser Ser Asn Thr Thr Ala Gly Gly Ala Pro Ala Gly Thr Gly		80
	85	90
Phe Gly Pro Leu Tyr Leu Asp Tyr Val Leu Gly Ile Thr Lys Ala Tyr		95
	100	105
Thr Thr Arg Val Gly Ser Gly Pro Phe Pro Thr Glu Leu Phe Asp Glu		110
	115	120
Asp Gly Glu Arg Leu Gly Thr Arg		125
130	135	

&lt;210&gt; 1303

&lt;211&gt; 1037

&lt;212&gt; DNA

&lt;213&gt; Homo sapiens

&lt;400&gt; 1303

gccccggggg ggaatctatc taacatcttc atgttcaacc cagagaagaa acatccccgc  
60  
gtttgacctg ggccctcttc atcccacatc attttttcaa cctttcccca ncttttcnga  
120  
aatagggcca accccttaaa aancaaatnt tcanataaac ctttttccct ccaccctttt  
180  
cccatcccat cttttttccc tcacaaacac aaacaaaang cctctttcct ttgccatttc  
240  
cactcctttt ggaagaaaca ggcctgttc cctccctgct caccacttca ccagctcag  
300  
ctggcacaaa aatactgcca ccacaccttc accctgccta gcccaacctg gcagggcctc  
360  
ggagtagcct gccagctaaa atacgggttg cccagataac tgtgaatgtc agataagaat  
420  
cttctgggac aagtatgtcc catgccatat ttgggacata cttactactaa taaatttctg  
480  
tttatctgaa actcaaatct gcttgggcgt cctgtacttt tcttaactaa atttgggtgc  
540  
tctacacaca aggtccctgg ggtggggggg cacaggagca agcccccttc caggctgggt  
600  
ccctgccggc atctcccaca gcccaggact ggccaccag atggagcccg tgccaggcag  
660  
cgggcgacag acggacaaag gctgctcagg agacactgca cactctctc tttcttgtct  
720  
gggggctcaa gaatecagac gccacctcc cagagcgagc accaagacag gaagccaacc  
780  
tgcaatgcc agccactgc gaccacaggg ctctgcggg gtcctgcgg aacccagggt  
840  
tcgggtccag aagccaggga taaatgccgc ttctctata gggacggta gagtagagag  
900  
ggggaggcct acagtctcac ctgcagggag aggaagtct cggggcgggc acgtgggggg  
960  
cctgacagct cagagcacac cgggccacag tgaccacgga ctgcacacgc agaagcagtc  
1020  
tggatcccc gcgtggc  
1037

&lt;210&gt; 1304

&lt;211&gt; 132

&lt;212&gt; PRT

&lt;213&gt; Homo sapiens

&lt;400&gt; 1304

```

Met Glu Pro Val Pro Gly Ser Arg Arg Gln Thr Asp Lys Gly Cys Ser
 1           5           10           15
Gly Asp Thr Ala His Leu Pro Leu Ser Cys Leu Gly Ala Gln Glu Ser
          20           25           30
Arg Arg Pro Pro Arg Ala Ser Thr Lys Thr Gly Ser Gln Pro Ala
      35           40           45
Met Pro Ser Pro Leu Arg Pro Gln Gly Ser Ala Gly Val Leu Pro Glu
      50           55           60
Pro Arg Val Pro Val Gln Lys Pro Gly Ile Asn Ala Ala Ser Pro Ile
      65           70           75           80
Gly Thr Val Arg Val Glu Arg Gly Arg Pro Thr Val Ser Pro Ala Gly
          85           90           95
Arg Gly Ser Pro Arg Gly Gly His Val Gly Gly Leu Thr Ala Pro Ser
          100          105          110
Thr Pro Gly His Ser Asp His Gly Leu His Thr Gln Lys Gln Ser Gly
      115          120          125
Ser His Ala Trp
      130

```

&lt;210&gt; 1305

&lt;211&gt; 775

&lt;212&gt; DNA

&lt;213&gt; Homo sapiens

&lt;400&gt; 1305

```

naccgcttct gcgaggccat gcgggtctat gccccgcggc cgttgacctc gcccacactc
60
ccggccccgc tgcgggtgga gagacgtcgg gccctctacg ggtcctggta cgagtttttc
120
ccgcgctctc aggggtgctta tgcgatgcg gacggtcact gggtttcagg tactttcgac
180
acctcctggg agcgccctga cgcgcgcgct gcgatgggat ttgacgttgt ttacctgccc
240
gcgatccatc ccattgggcca agccttcgc aagggaagg acaacaccct gaccccagggt
300
ccggacgata ccggatcgcc gtgggccatc ggatcgtctg atggcgccca tgacaccatt
360
caccgccacc taggcacctt cgacgacctc gaccgtttcg tggcccacgc tcatgaccta
420
ggcatggagg tggccctaga ttttgccttg caagcctcac cagaccacc gtgggtacac
480
cagcaccctg agtgggtcac gaccgcgctt gatggcacca tcgacctatgc agaaaattca
540
cccaaaaagt atcaggacat ctaccggatc aacttcgaca atgaccttga cggtatctac
600
caggaatgct tgcggctgct ggagttatgg atctcccaag cgtgacgat tttccgcgtc
660

```

gataatccac ataccaagcc tetgaatttc tgggcctggc tcatggaaca gggtcatcgt  
 720  
 cgtcaccccg aggtcatctt cctggcagag gccttcaccc gtcccgagat gatca  
 775

<210> 1306

<211> 258

<212> PRT

<213> Homo sapiens

<400> 1306

Xaa Ala Phe Cys Glu Ala Met Arg Val Tyr Ala Pro Arg Pro Leu Thr  
 1 5 10 15  
 Ser Pro Thr Leu Pro Ala Pro Leu Arg Val Glu Arg Arg Arg Ala Leu  
 20 25 30  
 Tyr Gly Ser Trp Tyr Glu Phe Phe Pro Arg Ser Gln Gly Ala Tyr Val  
 35 40 45  
 Asp Ala Asp Gly His Trp Val Ser Gly Thr Phe Asp Thr Ser Trp Glu  
 50 55 60  
 Arg Leu Asp Ala Ala Ala Met Gly Phe Asp Val Val Tyr Leu Pro  
 65 70 75 80  
 Ala Ile His Pro Met Gly Gln Ala Phe Arg Lys Gly Lys Asp Asn Thr  
 85 90 95  
 Leu Thr Pro Gly Pro Asp Asp Pro Gly Ser Pro Trp Ala Ile Gly Ser  
 100 105 110  
 Ser Asp Gly Gly His Asp Thr Ile His Pro Asp Leu Gly Thr Phe Asp  
 115 120 125  
 Asp Leu Asp Arg Phe Val Ala His Ala His Asp Leu Gly Met Glu Val  
 130 135 140  
 Ala Leu Asp Phe Ala Leu Gln Ala Ser Pro Asp His Pro Trp Val His  
 145 150 155 160  
 Gln His Pro Glu Trp Phe Thr Thr Arg Val Asp Gly Thr Ile Ala Tyr  
 165 170 175  
 Ala Glu Asn Ser Pro Lys Lys Tyr Gln Asp Ile Tyr Pro Ile Asn Phe  
 180 185 190  
 Asp Asn Asp Pro Asp Gly Ile Tyr Gln Glu Cys Leu Arg Leu Leu Glu  
 195 200 205  
 Leu Trp Ile Ser His Gly Val Thr Ile Phe Arg Val Asp Asn Pro His  
 210 215 220  
 Thr Lys Pro Leu Asn Phe Trp Ala Trp Leu Met Glu Gln Val His Arg  
 225 230 235 240  
 Arg His Pro Glu Val Ile Phe Leu Ala Glu Ala Phe Thr Arg Pro Glu  
 245 250 255  
 Met Ile

<210> 1307

<211> 624

<212> DNA

<213> Homo sapiens

<400> 1307

cggcgggtgg ggagtgccaa gccccagget cctgcatcc cactttcgtg gaggtcagtg  
 60

atgctgggca catgcggtca gggccctgtg cctgagccgt ggaactccac agccattcca  
 120  
 catgttcagt cccacaccct gaggccaagg caccgccagt cctgagggga gcaaggccct  
 180  
 gccacccgag gctgccgctg cagaggcaaa cagcccgag caaggcccgg caaccaccag  
 240  
 ctgtggctgc atggggcaaa cacagcctgg cctgaggtg ccggccagtc ggggtggcca  
 300  
 taggctaacg agaagccagg gcctccctcc cactgggtg ttccacaaaa acctgactaa  
 360  
 tgtccaggga cagccaaagg ccttgaggtc agctgggtgg aacaccttc ccctaccatc  
 420  
 ccgagatatt gtcttcttgg atggagtttt caaagccctc catgtggagg tctcgggatg  
 480  
 agaggctctg gctgagctct gtgcagagga gcaggaagct gcagaatggg caccgcctc  
 540  
 cctcccagca cctccagtcg ctgccacgcc ccaagctcct gagctgctct gcccaagacc  
 600  
 tcccccaacc ttggtctgac gcgt  
 624

<210> 1308

<211> 100

<212> PRT

<213> Homo sapiens

<400> 1308

Met	Ala	Thr	Pro	Thr	Gly	Arg	Gln	Pro	Gln	Ala	Arg	Leu	Cys	Leu	Pro
1				5					10					15	
His	Ala	Ala	Thr	Ala	Trp	Gly	Cys	Arg	Ala	Leu	Leu	Gly	Ala	Val	Cys
			20					25					30		
Leu	Cys	Ser	Gly	Ser	Leu	Gly	Trp	Gln	Gly	Leu	Ala	Pro	Ser	Gly	Thr
		35					40					45			
Arg	Gly	Ala	Leu	Ala	Ser	Gly	Cys	Gly	Thr	Glu	His	Val	Glu	Trp	Leu
	50					55				60					
Trp	Ser	Ser	Thr	Ala	Gln	Ala	Gln	Gly	Pro	Asp	Arg	Met	Cys	Pro	Ala
65				70					75					80	
Ser	Leu	Thr	Ser	Pro	Glu	Val	Gly	Cys	Arg	Glu	Pro	Gly	Ala	Trp	His
				85					90					95	
Ser	Pro	Pro	Ala												
			100												

<210> 1309

<211> 563

<212> DNA

<213> Homo sapiens

<400> 1309

ntgatcatcg ccaaccacca gtccaactat gacctgttcg tgtttggcac gggagtgc  
 60  
 taccgtactg tgtgtatcgg caaaaagagc ctgaaatggg tgccgctgtt cggtcagttg  
 120  
 ttctggctgg cgggcaatgt gttgattgac cggggcaacg cgcacaaggc gcgccgtca  
 180

atgctcacca ccacccacac cttgcagcat aaagacacat cgatctgggt atttgccgaa  
 240  
 ggttacacgca acttcgggtga aaccttgcgt cggttcaaga aagggtcggt ccagatggcg  
 300  
 attgccgcag gtgtgccgat cgtgcagggt tgtgtcagca cgatatgtaa gcacatgaag  
 360  
 ctcaatcggt gggacagtgg cgatatattta attcgtcgt tgcgcgcaat tcctacgacc  
 420  
 ggactgacgt tggatgacat gccacgggtg atggagacat gccgtcaaca aatgcgcgag  
 480  
 tgcattgagg caatggaccg cgagctggaa atcgtccctt gtaggaacga attggctcgc  
 540  
 gaagggcgtt aacgactacg cgt  
 563

<210> 1310

<211> 183

<212> PRT

<213> Homo sapiens

<400> 1310

Xaa Ile Ile Ala Asn His Gln Ser Asn Tyr Asp Leu Phe Val Phe Gly  
 1 5 10 15  
 Thr Gly Val Pro Tyr Arg Thr Val Cys Ile Gly Lys Lys Ser Leu Lys  
 20 25 30  
 Trp Val Pro Leu Phe Gly Gln Leu Phe Trp Leu Ala Gly Asn Val Leu  
 35 40 45  
 Ile Asp Arg Gly Asn Ala His Lys Ala Arg Arg Ser Met Leu Thr Thr  
 50 55 60  
 Thr His Thr Leu Gln His Lys Asp Thr Ser Ile Trp Val Phe Ala Glu  
 65 70 75 80  
 Gly Thr Arg Asn Phe Gly Glu Thr Leu Leu Pro Phe Lys Lys Gly Ala  
 85 90 95  
 Phe Gln Met Ala Ile Ala Ala Gly Val Pro Ile Val Gln Val Cys Val  
 100 105 110  
 Ser Thr Tyr Val Lys His Met Lys Leu Asn Arg Trp Asp Ser Gly Asp  
 115 120 125  
 Ile Leu Ile Arg Ser Leu Pro Pro Ile Pro Thr Thr Gly Leu Thr Leu  
 130 135 140  
 Asp Asp Met Pro Arg Leu Met Glu Thr Cys Arg Gln Gln Met Arg Glu  
 145 150 155 160  
 Cys Ile Glu Ala Met Asp Arg Glu Leu Glu Ile Val Pro Cys Arg Asn  
 165 170 175  
 Glu Leu Ala Arg Glu Gly Arg  
 180

<210> 1311

<211> 674

<212> DNA

<213> Homo sapiens

<400> 1311

gagcttgacg acgccaacg tgacatcctt gtatcaggcg ggtaattgac caatgatccc  
 60

tccagggcgc acccggcaca caccgtcggg ctgacggatg atctgagctg ggtcaagcgc  
 120  
 atctcccgcc cgccgaaagc cggaatacca cgaggcgctg gatcggcgat tctgttcaca  
 180  
 gggctgaccc ccgatcagga tcgactgacc aacgagtggg cgcaggcgca cgggttgggg  
 240  
 gaattttatg tcattggcccc ccgaatcctc ggtgatgtcc cgctgccaac gatcaccatc  
 300  
 gtccgcagcc tcaccttcac cgtgtgtctg gccatcatgg cgggcctgtt ggcgaaggag  
 360  
 gagagagcgc ccaacagtga tctggtgacc agcctcaaac gcacgggatt gggcaggcgt  
 420  
 tgggtggacc aggtcatcct tgtggagggt gctaccacaa tgctggccgc cctgatatgc  
 480  
 ggggtgatct cctcggttgt cgcggtgtgg ctacacaggca ggatcctgtc gggagccttg  
 540  
 gacctgtctg gggccgcgtg gtgggtcttc ggtgcgttgg ccgccgggat gttcggtgga  
 600  
 tccttctgtg gggccgccat ccacgcgcgt taccacttcg acatgagagc tacctgatcc  
 660  
 acgaccccg gaca  
 674

<210> 1312

<211> 196

<212> PRT

<213> Homo sapiens

<400> 1312

Met	Asp	Gly	Gly	Pro	Gln	Gln	Gly	Ser	Thr	Glu	His	Pro	Gly	Gly	Gln
1			5						10					15	
Arg	Thr	Glu	Asp	Pro	Pro	Arg	Gly	Pro	Lys	Gln	Val	Gln	Gly	Ser	Arg
		20						25					30		
Gln	Asp	Pro	Ala	Cys	Glu	Pro	His	Arg	Asp	Asn	Arg	Gly	Asp	His	Pro
		35					40				45				
Ala	Tyr	Gln	Gly	Gly	Gln	His	Cys	Gly	Ser	His	Leu	His	Lys	Asp	Asp
50					55					60					
Leu	Val	His	Pro	Thr	Pro	Ala	Gln	Ser	Asp	Ala	Phe	Glu	Ala	Gly	His
65				70					75					80	
Gln	Ile	Thr	Val	Gly	Gly	Ser	Leu	Leu	Leu	Arg	Gln	Gln	Ala	Arg	His
			85					90					95		
Asp	Gly	Arg	Gln	His	Asp	Glu	Gly	Asp	Gly	Arg	Asp	Asp	Gly	Asp	Arg
		100					105					110			
Trp	Gln	Arg	Asp	Ile	Thr	Glu	Asp	Ser	Gly	Gly	His	Asp	Ile	Lys	Phe
		115				120					125				
Pro	Gln	Pro	Val	Arg	Leu	Arg	Pro	Leu	Val	Gly	Gln	Ser	Ile	Leu	Ile
		130			135					140					
Gly	Gly	Gln	Pro	Cys	Glu	Gln	Asn	Arg	Arg	Ser	Ser	Ala	Ser	Trp	Tyr
145				150				155						160	
Ser	Gly	Phe	Arg	Arg	Pro	Gly	Asp	Ala	Leu	Asp	Pro	Ala	Gln	Ile	Ile
			165				170						175		
Arg	Gln	Pro	Asp	Gly	Val	Cys	Arg	Val	Gly	Pro	Gly	Gly	Ile	Ile	Gly
		180					185						190		
Gln	Val	Pro	Ala												

195

<210> 1313  
 <211> 367  
 <212> DNA  
 <213> Homo sapiens

<400> 1313  
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 60  
 gtggtggcag ctacgctagg acagtcacga gatttaggag ataaaataga aggtggcggc  
 120  
 aaggaaggga gaggacagag cctggtgtga ctcctgggtt tctggtgtgt atagctggtg  
 180  
 gacagtgggtg tctttgccaa gaggggagcc ctggaagagg agaggtttgc agggcagggtg  
 240  
 ctgagtcggg ttttggacac gctgaatttg aggtatctgt cagatatgag acccaaaaagg  
 300  
 tgagggcggg gaagtggatg tgcaggccct gagctctggg aggggtcttg gtatgctgtg  
 360  
 gtcatga  
 367

<210> 1314  
 <211> 121  
 <212> PRT  
 <213> Homo sapiens

<400> 1314  
 Met Thr Thr Ala Tyr Pro Asp Pro Ser Gln Ser Ser Gly Pro Ala His  
 1 5 10 15  
 Pro Leu Pro Arg Pro His Leu Leu Gly Leu Ile Ser Asp Arg Tyr Leu  
 20 25 30  
 Lys Phe Ser Val Ser Lys Thr Gly Leu Ser Thr Cys Pro Ala Asn Leu  
 35 40 45  
 Ser Ser Ser Arg Ala Pro Leu Leu Ala Lys Thr Pro Leu Ser Thr Ser  
 50 55 60  
 Tyr Thr His Gln Lys Pro Arg Ser His Thr Arg Leu Cys Pro Leu Pro  
 65 70 75 80  
 Ser Leu Pro Pro Pro Ser Ile Leu Ser Pro Lys Ser Arg Asp Cys Pro  
 85 90 95  
 Thr Leu Ala Ala Thr Thr Ala Ala Ala Pro Ala Ala Pro Pro Ala Pro  
 100 105 110  
 Ala Thr Trp Arg Gly Cys Met Asp Ile  
 115 120

<210> 1315  
 <211> 5245  
 <212> DNA  
 <213> Homo sapiens

<400> 1315  
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 60

gacatggatg atgcatctaa gcttcttcag gattatgata ttcgaactgg caacaccagg  
120  
gaagctttga gtccttgtcc aagtactgta agtaccaagt ctacgccagg cagcagtgtc  
180  
tcttctagtt ctggagttaa aatgaccagc tttgctgaac aaaaattcag gaaactgaat  
240  
cataccgatg gaaaaagtag tgggaagcagt tctcaaaaa ctacaccaga aggctctgaa  
300  
cttaatatc ctcatgtggt tgcttgggca caaattccag aagaaacagg gcttccacag  
360  
ggacgggaca ctaccagct gttggcctct gaaatgggtgc atcttaggat gaaactagaa  
420  
gaaaagaggc gtgctataga agcccagaaa aagaaatgg aagctgcttt taccaaacag  
480  
agacagaaaa tgggaaggac agcattcctt actgtagtga aaaagaaagg ggatgggata  
540  
tctcctctac gagaggaagc ggccgggtgca gaagatgaga agtatatata tgatcgagca  
600  
aaagaaaagg aatcacaaaa aactgatgga caaaggagca agtactggc agatataaaa  
660  
gagagcatgg agaatcctca agccaaatgg ctaaagtctc caactacacc tattgatcct  
720  
gagaagcagt ggaacctggc aagccccctca gaagaaactt taaatgaagg agagatttta  
780  
gaatatacca aatccattga aaagttaaat tcattccctgc attttctaca acaagaaatg  
840  
caacgcctgt cacttcagca ggagatgtta atgcagatga gagagcaaca atcttgggtg  
900  
atttcacctc cacaacctc tccacagaaa cagattcgag attttaaac ttctaagcag  
960  
gcaggcctgt catcagccat tgcaccatto tctcagact cccctcgctc tactcacca  
1020  
tctccacagt cttctaacag gaaaagtgca tctttttctg ttaaaagtca aaggactcct  
1080  
aggccaaatg agttaaaaa aacacctttg aatcgaaact tgacacctcc tcggctctgtg  
1140  
gatagccttc ctccggttaag gaggttttca ccaagtcaag ttctatttca aactaggtca  
1200  
tttgtatggt ttggggatga tgggaaacct cagttaaagg aatccaaacc taaaggaggaa  
1260  
gttaaaaagg aggaattgga atccaaaggg actttggaac agcgtggaca taatccagaa  
1320  
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<211> 856

<212> PRT

<213> Homo sapiens

<400> 1316

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Lys	Ser	Ser	Gly	Ser	Ser	Ser	Gln	Lys	Thr	Thr	Pro	Glu	Gly	Ser	Glu
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Gly	Leu	Pro	Gln	Gly	Arg	Asp	Thr	Thr	Gln	Leu	Leu	Ala	Ser	Glu	Met
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Ser	Pro	Leu	Arg	Glu	Glu	Ala	Ala	Gly	Ala	Glu	Asp	Glu	Lys	Val	Tyr
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Thr Leu Thr Pro Pro Arg Ser Val Asp Ser Leu Pro Arg Leu Arg Arg		
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Phe Ser Pro Ser Gln Val Pro Ile Gln Thr Arg Ser Phe Val Cys Phe		
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Val Lys Lys Glu Glu Leu Glu Ser Lys Gly Thr Leu Glu Gln Arg Gly		
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Glu Val Leu Ser Leu Pro Val Thr Glu Thr Val Cys Leu Thr Pro Asn		
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Glu Asp Gln Leu Asn Gln Pro Thr Glu Pro Pro Lys Pro Val Phe		
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Glu Thr Arg Arg Lys Thr Glu Glu Glu Arg Gln Lys Lys Glu Asp Glu		
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Lys Arg Thr Pro Arg Ser Glu Ser Val Glu Gly Phe Leu Ser Pro Ser		
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              740              745              750
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Phe Arg Asp Ser Gly Cys Gln Phe Arg Ser Leu Tyr Thr Tyr Cys Pro
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Glu Thr Glu Glu Ile Asn Lys Leu Thr Gly Ile Gly Pro Lys Ser Ile
785              790              795              800
Thr Lys Lys Met Ile Glu Gly Leu Tyr Lys Tyr Asn Ser Asp Arg Lys
              805              810              815
Gln Phe Ser His Ile Pro Ala Lys Thr Leu Ser Ala Ser Val Asp Ala
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Ile Thr Ile His Ser His Leu Trp Gln Thr Lys Arg Pro Val Thr Pro
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Lys Lys Leu Leu Pro Thr Lys Ala
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<210> 1317

<211> 1123

<212> DNA

<213> Homo sapiens

<400> 1317

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<211> 285

<212> PRT

<213> Homo sapiens

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Asp	Ala	Thr	Ala	Val	Ala	Gly	Ile	Glu	Thr	Lys	Lys	Glu	Lys	Glu	Asp
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Leu	Cys	Leu	Leu	Lys	Lys	Glu	Glu	Lys	Glu	Glu	Pro	Val	Ala	Pro	Glu
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Leu	Ala	Thr	Thr	Val	Pro	Glu	Ser	Ala	Glu	Pro	Glu	Ala	Glu	Ala	Asp
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Gly	Glu	Glu	Leu	Asp	Gly	Ser	Asp	Met	Ser	Ala	Ile	Ile	Tyr	Glu	Ile
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Pro	Lys	Glu	Pro	Glu	Lys	Arg	Arg	Arg	Ser	Lys	Arg	Ser	Arg	Val	Met
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Val	His	Arg	Lys	Gly	Lys	Thr	Lys	Val	Cys	Pro	His	Pro	Gly	Cys	Gly
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 50 55 60  
 Lys Pro Trp Asp Gly Val Cys Met Gly Met Cys Arg Glu Ala Ala Thr  
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&lt;211&gt; 1292

&lt;212&gt; DNA

&lt;213&gt; Homo sapiens

&lt;400&gt; 1321

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&lt;210&gt; 1322

&lt;211&gt; 317

&lt;212&gt; PRT

&lt;213&gt; Homo sapiens

&lt;400&gt; 1322

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Pro Gly His Val Ile Val Lys Lys Ile Tyr Asn Asn Asn Val Leu Leu
      35           40           45
Gly Val Asn Gly Ser Gly Thr Glu Met Val Val Asn Ala Arg Gly Ile
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Ala Tyr Gly Arg His Arg Gly Glu Ile Val Asp Ala Ser Ser Ala Gln
65           70           75           80
Arg Tyr Val Ala Glu Gly Ala Tyr Arg Thr Thr Ala Ile Ala Ser Leu
      85           90           95
Leu Thr Asn Ala Thr His Thr Glu Val Arg Val Ala Gln Ala Ile Val
      100          105          110
Glu Leu Ala Arg Glu Glu Leu Gly Thr Pro His Ala Arg Arg Met Met
      115          120          125
Leu Pro Ile Leu Asp His Leu Val Ala Ala Val His Arg Ala Lys Gln
      130          135          140
Gly Ala Val Ile Asp Phe Pro Leu Glu Trp Glu Val Arg Gln Leu Tyr
      145          150          155          160
Pro Asp Glu Ala Glu Leu Gly Arg Arg Ala Val Glu Ile Val Asp Gly
      165          170          175          180
Ala Leu Glu Ile His Leu Gln Pro Glu Glu Trp Val Ala Phe Ser Leu
      180          185          190
His Phe Ile Asn Gln Arg Trp Asp Ser Arg Asp Val Ser Arg Thr Met
      195          200          205
Ser Met Thr Gln Thr Ile Cys Asp Val Phe Thr Glu Leu Glu Asp Leu
      210          215          220
Trp His Val Glu Ile Asp Arg Ser Ser Met Ser Ala Ser Arg Phe Val
      225          230          235          240
Thr His Leu Arg Tyr Leu Phe Ala Arg Ala Ser Asp Asn Lys Gln Leu
      245          250          255
Ser His Val Asp Leu Asp Ile Val Gly Leu Met Ser Asp Arg Tyr Pro
      260          265          270
Glu Ala Thr Leu Ala Ala Ser Gln Val Ala Glu His Ile Ser Lys Ala
      275          280          285
Ile Gly Asn Asp Leu Thr Glu Ala Glu Ile Asn Tyr Ile Ala Leu His
      290          295          300
Thr Thr Arg Leu Tyr Asn Glu Val Met Gly Met Asp Asp
      305          310          315

```

&lt;210&gt; 1323

&lt;211&gt; 306

&lt;212&gt; DNA

&lt;213&gt; Homo sapiens

&lt;400&gt; 1323

```

cgcgtgatgg gaatgcgtca ctatgatgtt cagttgattg gtggtatcac tctgcacgaa
60
ggcaaaattg ctgagatgcg tacaggtgaa ggtaaaaccc tgatgggtac tttagcgtgt
120

```

tacctcaatg cattgagtgg tcagggtgtg catgtcatca cegtcaatga ctatcttgca  
 180  
 caacgtgatg ctgaactcaa cegcccatata tttagatttt tgggtttaag catcggtgtg  
 240  
 atttattcga tgcaaatgcc tgctgagaaa gcacaagctt atttagcaga cactacttac  
 300  
 ggtacc  
 306

<210> 1324  
 <211> 102  
 <212> PRT  
 <213> Homo sapiens

<400> 1324  
 Arg Val Met Gly Met Arg His Tyr Asp Val Gln Leu Ile Gly Gly Ile  
 1 5 10 15  
 Thr Leu His Glu Gly Lys Ile Ala Glu Met Arg Thr Gly Glu Gly Lys  
 20 25 30  
 Thr Leu Met Gly Thr Leu Ala Cys Tyr Leu Asn Ala Leu Ser Gly Gln  
 35 40 45  
 Gly Val His Val Ile Thr Val Asn Asp Tyr Leu Ala Gln Arg Asp Ala  
 50 55 60  
 Glu Leu Asn Arg Pro Leu Phe Glu Phe Leu Gly Leu Ser Ile Gly Val  
 65 70 75 80  
 Ile Tyr Ser Met Gln Met Pro Ala Glu Lys Ala Gln Ala Tyr Leu Ala  
 85 90 95  
 Asp Ile Thr Tyr Gly Thr  
 100

<210> 1325  
 <211> 391  
 <212> DNA  
 <213> Homo sapiens

<400> 1325  
 gtgcacatgg gcccaactggc gaatccgacg cgcgccctac ggcgcgcaat actggcgggc  
 60  
 attgtcgccg catgttccgt ctccgctcat gccggaagct ggccagagaa accgatcacg  
 120  
 atggctcgtgc cgtttcccgc cggaggcggc accgatctcg tggcgcgctc gatccagccg  
 180  
 cttttgcagc gcgaactcgg acaaccgggtg gtgatcgaca acccgagcgg cgcaggcggg  
 240  
 acgctcggct ccagcttcgt ggcgcggggc gttgccgacg gctacacggc tggcgtggtc  
 300  
 accacgagca cccacgcggg aagcgtcgcg ctctatcccc ggctggccta caaccgaca  
 360  
 gcggactttg catacgccgg ettcacggc n  
 391

<210> 1326  
 <211> 130  
 <212> PRT

&lt;213&gt; Homo sapiens

&lt;400&gt; 1326

```

Val His Met Gly Pro Leu Ala Asn Pro Thr Arg Gly Leu Arg Arg Ala
 1           5           10           15
Ile Leu Ala Ala Ile Val Ala Ala Cys Ser Val Ser Ala His Ala Gly
      20           25           30
Ser Trp Pro Glu Lys Pro Ile Thr Met Val Val Pro Phe Pro Ala Gly
      35           40           45
Gly Gly Thr Asp Leu Val Ala Arg Ser Ile Gln Pro Leu Leu Gln Arg
      50           55           60
Glu Leu Gly Gln Pro Val Val Ile Asp Asn Arg Ser Gly Ala Gly Gly
65           70           75           80
Thr Leu Gly Ser Ser Phe Val Ala Arg Ala Val Ala Asp Gly Tyr Thr
      85           90           95
Ala Gly Val Val Thr Thr Ser Thr His Ala Val Ser Val Ala Leu Tyr
      100          105          110
Pro Arg Leu Ala Tyr Asn Pro Thr Ala Asp Phe Ala Tyr Ala Gly Phe
      115          120          125
Ile Gly
      130

```

&lt;210&gt; 1327

&lt;211&gt; 324

&lt;212&gt; DNA

&lt;213&gt; Homo sapiens

&lt;400&gt; 1327

```

nnacgcgtga ttctcggaact gcagcagttc gagcagtcgc atggacacag cgacgggagc
60
tacttgctat ggttcgagct gctgtggcga gactatttcc gctttctgca tcttcggcat
120
ggcgctcggc tgtaccgcgc acgcggccctc gcaaatgagg tacggcacgc ggagcgccca
180
gatgtgcagg gcttcgagcg ctggcgctcgt gcatcgaccg gcgagccgct cgtcgatgcc
240
gcgatgcgcg agctggagac caccggctac ctcagcaaca ggctcagaca ggtgtgcgcg
300
agctacctcg tgcacgagct ggga
324

```

&lt;210&gt; 1328

&lt;211&gt; 108

&lt;212&gt; PRT

&lt;213&gt; Homo sapiens

&lt;400&gt; 1328

```

Xaa Arg Val Ile Ser Glu Leu Gln Gln Phe Glu Gln Ser His Gly Gln
 1           5           10           15
Ser Asp Gly Ser Tyr Trp Leu Trp Phe Glu Leu Leu Trp Arg Asp Tyr
      20           25           30
Phe Arg Phe Leu His Leu Arg His Gly Ala Arg Leu Tyr Arg Ala Arg
      35           40           45
Gly Leu Ala Asn Glu Val Arg His Ala Glu Arg Pro Asp Val Gln Gly

```

```

      50              55              60
Phe Glu Arg Trp Arg Arg Ala Ser Thr Gly Glu Pro Leu Val Asp Ala
65              70              75              80
Ala Met Arg Glu Leu Glu Thr Thr Gly Tyr Leu Ser Asn Arg Leu Arg
      85              90              95
Gln Val Val Ala Ser Tyr Leu Val His Glu Leu Gly
      100              105

```

&lt;210&gt; 1329

&lt;211&gt; 438

&lt;212&gt; DNA

&lt;213&gt; Homo sapiens

&lt;400&gt; 1329

```

ngtgcacgct tagcattaga tttagcttcc agtggcaaaa ctacgtcggt gatttcaagc
60
ggcgatatcg gcatttacgc gatggcgacc ctgggtgttg aactgctgga tagacaactc
120
caggggccttg aagaccatcc tgaatgggta gatgttgaaa tcgatgtggt acctggcatc
180
tctgcaatgc aagctggtgc aagtcgtatt ggtgcatgt taggtcatga cttttgtacg
240
gtgagtttgt ctgatttatt aacccttgg gaaactatta ataaactgat tcatagtcca
300
ggtgaggggg attttgttat ctctttttat aaccctgttt ctaagaaacg tgattggcag
360
cttaaccacg cgcgtgatgt attattgaaa taccgtccag catcaacgcc agttttatta
420
ggtcgtcagt tgacgcgt
438

```

&lt;210&gt; 1330

&lt;211&gt; 146

&lt;212&gt; PRT

&lt;213&gt; Homo sapiens

&lt;400&gt; 1330

```

Xaa Ala Arg Leu Ala Leu Asp Leu Ala Ser Ser Gly Lys Thr Thr Ser
1      5      10      15
Leu Ile Ser Ser Gly Asp Ile Gly Ile Tyr Ala Met Ala Thr Leu Val
      20      25      30
Phe Glu Leu Leu Asp Arg Gln Leu Gln Gly Leu Glu Asp His Pro Glu
      35      40      45
Trp Leu Asp Val Glu Ile Asp Val Val Pro Gly Ile Ser Ala Met Gln
      50      55      60
Ala Gly Ala Ser Arg Ile Gly Ala Met Leu Gly His Asp Phe Cys Thr
65      70      75      80
Val Ser Leu Ser Asp Leu Leu Thr Pro Trp Glu Thr Ile Asn Lys Arg
      85      90      95
Ile His Ser Ala Gly Glu Gly Asp Phe Val Ile Ser Phe Tyr Asn Pro
      100      105      110
Val Ser Lys Lys Arg Asp Trp Gln Leu Asn His Ala Arg Asp Val Leu
      115      120      125
Leu Lys Tyr Arg Pro Ala Ser Thr Pro Val Leu Leu Gly Arg Gln Leu

```

130  
 Thr Arg  
 145

135

140

<210> 1331  
 <211> 453  
 <212> DNA  
 <213> Homo sapiens

<400> 1331  
 gcgtaccgct ccgcggaact ggtgatgatg accgaggcac cgggatgcgg aatcccctgg  
 60  
 catcttctgg ccggcatcgg acgcatecga tccggtcacg ccaacggcgg caagacgacc  
 120  
 tcggtgggta cgaacgtcac cccgatcctc ggccccatcc tcgacggacg gctggcaggc  
 180  
 aacgaagtca ttcgggacac cgacaagggc aatcgacggc gaccactca cgaccgcgcc  
 240  
 gtcggggccga tgcagttcat tccggccacc tgggccggat atgccagcga cggcaacggg  
 300  
 gacggaatca aggaccccaa caacgtcttc gatcgggcac tctcggcagc gaagtacctc  
 360  
 tgcagcggcg gactcaacct gcgcgatgtc gcccaggaga ccaaagctgt tctgcgatac  
 420  
 aacaactcgg ccgcttacgc agcaaacgtg atc  
 453

<210> 1332  
 <211> 151  
 <212> PRT  
 <213> Homo sapiens

<400> 1332  
 Ala Tyr Arg Ser Ala Glu Leu Val Met Met Thr Glu Ala Pro Gly Cys  
 1 5 10 15  
 Gly Ile Pro Trp His Leu Leu Ala Gly Ile Gly Arg Ile Glu Ser Gly  
 20 25 30  
 His Ala Asn Gly Gly Lys Thr Thr Ser Val Gly Thr Asn Val Thr Pro  
 35 40 45  
 Ile Leu Gly Pro Ile Leu Asp Gly Arg Leu Ala Gly Asn Glu Val Ile  
 50 55 60  
 Arg Asp Thr Asp Lys Gly Asn Arg Arg Arg Pro Thr His Asp Arg Ala  
 65 70 75 80  
 Val Gly Pro Met Gln Phe Ile Pro Ala Thr Trp Ala Gly Tyr Ala Ser  
 85 90 95  
 Asp Gly Asn Gly Asp Gly Ile Lys Asp Pro Asn Asn Val Phe Asp Ala  
 100 105 110  
 Ala Leu Ser Ala Ala Lys Tyr Leu Cys Ser Gly Gly Leu Asn Leu Arg  
 115 120 125  
 Asp Val Ala Gln Glu Thr Lys Ala Val Leu Arg Tyr Asn Asn Ser Ala  
 130 135 140  
 Ala Tyr Ala Ala Asn Val Ile  
 145 150

&lt;210&gt; 1333

&lt;211&gt; 540

&lt;212&gt; DNA

&lt;213&gt; Homo sapiens

&lt;400&gt; 1333

acgcgctgcc cacactgttg ccgccgaggg ggctcgagcc ggggtgtgagg aaggatccgc  
 60  
 ggccacagctc gtcggtcaag atgggtctag tgctgctcgt atggcgccgg aggcatccgc  
 120  
 gcgaagggtt aaagcggatg gactaagcca gcttgtcatc gatgtcaatg gagacgcccgt  
 180  
 cagcgctcgg acggaaatca cccggcctac tcgtctatta gcccttatgt gactaaccga  
 240  
 agtacacggt cgggcgagcg aaatgtgtat tttgctggct cgctgagccc gttgcagcga  
 300  
 tacaatgatg aggtgtctaa gtattttccg gtccaccggc agaaccgcga gcagcgttct  
 360  
 ctcaatcaga tcgtcgacat cctgcacatc ggcggtctta tcgcctaccg gacagacacg  
 420  
 gggttatgcct tcggtgcccg gntagggaaat aaggatgccg tggaccggat tcgcaaaactt  
 480  
 cgccagttat ttgacaagca tcacttcacc ctggctcatga gccagtttgc gcagggttggc  
 540

&lt;210&gt; 1334

&lt;211&gt; 70

&lt;212&gt; PRT

&lt;213&gt; Homo sapiens

&lt;400&gt; 1334

Val His Pro Glu Asn Pro Gln Gln Arg Ser Leu Asn Gln Ile Val Asp  
 1 5 10 15  
 Ile Leu His His Gly Gly Leu Ile Ala Tyr Pro Thr Asp Thr Gly Tyr  
 20 25 30  
 Ala Phe Gly Ala Arg Xaa Gly Asn Lys Asp Ala Val Asp Arg Ile Arg  
 35 40 45  
 Lys Leu Arg Gln Leu Phe Asp Lys His His Phe Thr Leu Val Met Ser  
 50 55 60  
 Gln Phe Ala Gln Val Gly  
 65 70

&lt;210&gt; 1335

&lt;211&gt; 748

&lt;212&gt; DNA

&lt;213&gt; Homo sapiens

&lt;400&gt; 1335

ncctctatac tttttttccc tattctctatc cccctctctc ccgaccgcgt gaagcgttct  
 60  
 gtgaatgccca agaagaagcg tcgtgaggtc ctcgatcagg cctccgggta ccgtgggtcag  
 120  
 cgctcgcgcc tgtaccgcaa ggccaaggag cagaccctcc attcgccac ttattcgttc  
 180

cgtgaccgtc gtgctaagaa gggtgacttc cgctcgctgt ggatccagcg catcaatgct  
 240  
 gcttcccgtg cccagggcat gacctacaac cgtttcatca acggtctgaa gaacgctggc  
 300  
 gtcgaggctg accgcaagat gctcgtgtag cttgccgtct cgcacattaa cgccttcaac  
 360  
 agcctggtcg aggtcgctaa ggctagccag ccgcagaacg ctgctgcctg agatggccat  
 420  
 gactggcggg ccgaacgacg actatttggg atgggatcgc atctcgaagg ggtcattgctg  
 480  
 ttcggcccggt cgtctttcat ctccggcggg acgcgatgag tccgggctgt tcttggtaga  
 540  
 aggtgctgag gcagttctgt aagccctagc atggccgggt aaagtcaatt tgttggaac  
 600  
 ctccgaccca gctcgcgatg ctgagcatgt cgagggtggt acatgctgct gcgttcgggt  
 660  
 cgtggtgctc actgacgagg atgtcaatgc gctttctgat accgtcacca gtcagggggt  
 720  
 cttcgcggta tgcggcagg ttacgcgt  
 748

&lt;210&gt; 1336

&lt;211&gt; 136

&lt;212&gt; PRT

&lt;213&gt; Homo sapiens

&lt;400&gt; 1336

Xaa Leu Ile Leu Phe Phe Pro Ile Pro Ile Pro Pro Leu Ser Asp Arg  
 1 5 10 15  
 Val Lys Arg Ser Val Asn Ala Lys Lys Lys Arg Arg Glu Val Leu Asp  
 20 25 30  
 Gln Ala Ser Gly Tyr Arg Gly Gln Arg Ser Arg Leu Tyr Arg Lys Ala  
 35 40 45  
 Lys Glu Gln Thr Leu His Ser Ala Thr Tyr Ser Phe Arg Asp Arg Arg  
 50 55 60  
 Ala Lys Lys Gly Asp Phe Arg Ser Leu Trp Ile Gln Arg Ile Asn Ala  
 65 70 75 80  
 Ala Ser Arg Ala Gln Gly Met Thr Tyr Asn Arg Phe Ile Asn Gly Leu  
 85 90 95  
 Lys Asn Ala Gly Val Glu Val Asp Arg Lys Met Leu Ala Glu Leu Ala  
 100 105 110  
 Val Ser Asp Ile Asn Ala Phe Asn Ser Leu Val Glu Val Ala Lys Ala  
 115 120 125  
 Ser Gln Pro Gln Asn Ala Ala Ala  
 130 135

&lt;210&gt; 1337

&lt;211&gt; 364

&lt;212&gt; DNA

&lt;213&gt; Homo sapiens

&lt;400&gt; 1337

acgcgtgagg ccaggccact gggcaccgcc gttagccagg gcagctcct tcagtggtca  
 60

```

aggcagactc agctcatggg cgagcatgtc agtgaagggc acagcaaggc tcacgagtgg
120
gcctcttgcc tcatgggtcag tgtgggtcag tgctttcgct gtaggagact acaggggttc
180
tctgcctcac catgggggac gattgggtct gggtcacttc ctgctgtggg acctgtcctg
240
ggcactgcag gatgtggggc agggctccta cgtgccagct accagatgcc agcagcaccc
300
ccagaagtga caaccacaac catctccagg tgttgccagt gtccctctggg ggtagagtg
360
gccc
364

```

&lt;210&gt; 1338

&lt;211&gt; 96

&lt;212&gt; PRT

&lt;213&gt; Homo sapiens

&lt;400&gt; 1338

```

Met Gly Glu His Val Ser Glu Gly His Ser Lys Ala His Glu Trp Ala
 1             5             10            15
Ser Cys Leu Met Val Ser Val Gly Gln Cys Phe Arg Cys Met Arg Leu
                20            25            30
Gln Gly Phe Ser Ala Ser Pro Trp Gly Thr Ile Gly Ser Gly Ser Leu
                35            40            45
Pro Ala Val Gly Pro Val Leu Gly Thr Ala Gly Cys Gly Ala Gly Leu
 50            55            60
Leu Arg Ala Ser Tyr Gln Met Pro Ala Ala Pro Glu Val Thr Thr
65            70            75            80
Thr Thr Ile Ser Arg Cys Cys Gln Cys Pro Leu Gly Val Arg Val Ala
                85            90            95

```

&lt;210&gt; 1339

&lt;211&gt; 653

&lt;212&gt; DNA

&lt;213&gt; Homo sapiens

&lt;400&gt; 1339

```

cgcggtgtct tcaacatcga cgaaaagcag tgcattgacc tggcgccaccg tggtagtgag
60
tggtgtcgta ggtacgccga caagtacctc ggagcagttg agttcggtca cgagtactct
120
ccggagatgt ttagccagac ccgacgggac ttcgctatcg acgtctgtca ctccgtgatg
180
gacgtgtggc agccgggggc agggcgtgag attatcctta atctgccggc taccgtcgag
240
atgagtactc cgaacaccta ccgccaccaa atcgagtact tctgccgcaa tatccgtgat
300
cgtgagcacg tgtgcgtctc ttgcacccg cacaatgata gtggcacggc gatcgcgggc
360
gccgagttcg cgcagatggc gggcgccgat cgcgtcgagg gctgtttctt tggccccggc
420
gagcgccccg gcaccgtcga cctgggtcacc ctgggcatga acctcgtcag ccagggagtt
480

```

gacgcgcgta tcgactttctc cgacatgccc aagatccgcc gcaccgtcga gtactgcacc  
 540  
 tgtctgccag tacgggcccc ccagccctac tccggcgatc tggctttcac cgcctttccc  
 600  
 ggttcccacc aggacgcat caagaagggt ctggaagacc tggcccgccg cgc  
 653

<210> 1340  
 <211> 217  
 <212> PRT  
 <213> Homo sapiens

<400> 1340  
 Arg Val Val Phe Asn Ile Asp Glu Lys Gln Cys Ile Asp Leu Ala His  
 1 5 10 15  
 Arg Gly Thr Glu Trp Val Val Arg Tyr Ala Asp Lys Tyr Leu Gly Asp  
 20 25 30  
 Val Glu Phe Gly Tyr Glu Tyr Ser Pro Glu Met Phe Ser Gln Thr Arg  
 35 40 45  
 Thr Asp Phe Ala Ile Asp Val Cys His Ser Val Met Asp Val Trp Gln  
 50 55 60  
 Pro Gly Pro Gly Arg Glu Ile Ile Leu Asn Leu Pro Ala Thr Val Glu  
 65 70 75 80  
 Met Ser Thr Pro Asn Thr Tyr Ala Asp Gln Ile Glu Tyr Phe Cys Arg  
 85 90 95  
 Asn Ile Arg Asp Arg Glu His Val Cys Val Ser Leu His Pro His Asn  
 100 105 110  
 Asp Arg Gly Thr Ala Ile Ala Ala Glu Phe Ala Gln Met Ala Gly  
 115 120 125  
 Ala Asp Arg Val Glu Gly Cys Phe Phe Gly Pro Gly Glu Arg Pro Gly  
 130 135 140  
 Thr Val Asp Leu Val Thr Leu Gly Met Asn Leu Val Ser Gln Gly Val  
 145 150 155 160  
 Asp Ala Gly Ile Asp Phe Ser Asp Met Pro Lys Ile Arg Arg Thr Val  
 165 170 175  
 Glu Tyr Cys Thr Cys Leu Pro Val Pro Ala Arg Gln Pro Tyr Ser Gly  
 180 185 190  
 Asp Leu Val Phe Thr Ala Phe Ser Gly Ser His Gln Asp Ala Ile Lys  
 195 200 205  
 Lys Gly Leu Glu Asp Leu Ala Arg Arg  
 210 215

<210> 1341  
 <211> 666  
 <212> DNA  
 <213> Homo sapiens

<400> 1341  
 accggttgct gatttccctt tggagtcctt caccactatg agcagtgact ccattgtttt  
 60  
 gcaaaagtctt ttgccttgct ttgatcatat ttccacaact ggattcccaa cagaagtgtg  
 120  
 gcaatctgta atagaaaagt tggcaaagaa aggattatgg cattcatttc tgcttctgtc  
 180

agcaaaaaaa gaccgattac caagaaatat tcatgtccca gagttatcac tgaaaagtct  
 240  
 ctttgagaaa tacgttttca ttggacttta tgagaagatg gaacaagtgc ccaagttagt  
 300  
 ccagtggctc atctccattg gtgcaagtgt tgagactata ggaccgtatc cccttcatgc  
 360  
 cctcatgcga ctctgtatcc aagccagaga aaaccatctt ttccggtggt taatggatca  
 420  
 caagcccag tggaaggcc gcattaacca gaaggatggg gatggctgca ctgtcctgca  
 480  
 cgtcgtcgt gccactccc caggatacct cgtaaagcga caaacagagg atgtgcagat  
 540  
 gctcctgcgc ttggggcag atcccacttt gctggatcga cagtctcggt ctgttgtaga  
 600  
 tgtcctgaag aggaataaga acttcaaagc catcgagaaa atcaacagtc acttagaaaa  
 660  
 gctagc  
 666

&lt;210&gt; 1342

&lt;211&gt; 209

&lt;212&gt; PRT

&lt;213&gt; Homo sapiens

&lt;400&gt; 1342

Met	Ser	Ser	Asp	Ser	Ile	Val	Leu	Gln	Ser	Phe	Leu	Pro	Cys	Phe	Asp
1			5						10					15	
His	Ile	Phe	Thr	Thr	Gly	Phe	Pro	Thr	Glu	Val	Trp	Gln	Ser	Val	Ile
			20					25					30		
Glu	Lys	Leu	Ala	Lys	Lys	Gly	Leu	Trp	His	Ser	Phe	Leu	Leu	Leu	Ser
		35					40				45				
Ala	Lys	Lys	Asp	Arg	Leu	Pro	Arg	Asn	Ile	His	Val	Pro	Glu	Leu	Ser
		50				55					60				
Leu	Lys	Ser	Leu	Phe	Glu	Lys	Tyr	Val	Phe	Ile	Gly	Leu	Tyr	Glu	Lys
65					70				75					80	
Met	Glu	Gln	Val	Pro	Lys	Leu	Val	Gln	Trp	Leu	Ile	Ser	Ile	Gly	Ala
			85						90					95	
Ser	Val	Glu	Thr	Ile	Gly	Pro	Tyr	Pro	Leu	His	Ala	Leu	Met	Arg	Leu
			100					105						110	
Cys	Ile	Gln	Ala	Arg	Glu	Asn	His	Leu	Phe	Arg	Trp	Leu	Met	Asp	His
		115				120						125			
Lys	Pro	Glu	Trp	Lys	Gly	Arg	Ile	Asn	Gln	Lys	Asp	Gly	Asp	Gly	Cys
		130				135					140				
Thr	Val	Leu	His	Val	Val	Ala	Ala	His	Ser	Pro	Gly	Tyr	Leu	Val	Lys
145				150					155					160	
Arg	Gln	Thr	Glu	Asp	Val	Gln	Met	Leu	Leu	Arg	Phe	Gly	Ala	Asp	Pro
			165						170					175	
Thr	Leu	Leu	Asp	Arg	Gln	Ser	Arg	Ser	Val	Val	Asp	Val	Leu	Lys	Arg
		180						185					190		
Asn	Lys	Asn	Phe	Lys	Ala	Ile	Glu	Lys	Ile	Asn	Ser	His	Leu	Glu	Lys
		195					200					205			
Leu															

<210> 1343  
 <211> 270  
 <212> DNA  
 <213> Homo sapiens

<400> 1343  
 ccggaatgt gccgagttct cctgacgcac gaagtgatgt gtagtcgatg ctgcgaaaaa  
 60  
 aaaagctgtg gaaaccgaaa tgagactcca tcggaccacg tcataattga cagattcttt  
 120  
 ttaaaatttt tcttcaagtg caatcagaat tgtttgaaaa cagcaggaaa cccaagggac  
 180  
 atgagacggg ttcaggttgt gttgtcaaca acggtgaatg tggatggaca cgctctggct  
 240  
 gtttctgaca acatgtttgt tcataacaac  
 270

<210> 1344  
 <211> 90  
 <212> PRT  
 <213> Homo sapiens

<400> 1344  
 Pro Glu Met Cys Arg Val Leu Leu Thr His Glu Val Met Cys Ser Arg  
 1 5 10 15  
 Cys Cys Glu Lys Lys Ser Cys Gly Asn Asn Asn Glu Thr Pro Ser Asp  
 20 25 30  
 Pro Val Ile Asp Arg Phe Phe Leu Lys Phe Phe Leu Lys Cys Asn  
 35 40 45  
 Gln Asn Cys Leu Lys Thr Ala Gly Asn Pro Arg Asp Met Arg Arg Phe  
 50 55 60  
 Gln Val Val Leu Ser Thr Thr Val Asn Val Asp Gly His Val Leu Ala  
 65 70 75 80  
 Val Ser Asp Asn Met Phe Val His Asn Asn  
 85 90

<210> 1345  
 <211> 402  
 <212> DNA  
 <213> Homo sapiens

<400> 1345  
 acgcgtttga aaccaccga tgacttgtcg gtgatcctgg gtaccgcgt cagcaacttc  
 60  
 agcggcaccg acaacaccga cttctacgac ccgaccaagg ccgacaaccg tctcacctac  
 120  
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<210> 1346

<211> 134

<212> PRT

<213> Homo sapiens

<400> 1346

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		20					25						30		
Lys	Ala	Asp	Asn	Arg	Leu	Thr	Tyr	Arg	Gln	Thr	Gly	Val	Val	Thr	Pro
		35					40					45			
Tyr	Ala	Gly	Ile	Val	Tyr	Asp	Leu	Asn	Asp	Ile	Trp	Ser	Val	Tyr	Thr
	50				55					60					
Ser	Tyr	Thr	Lys	Ile	Tyr	Lys	Pro	Gln	Asn	Ser	Lys	Asp	Ala	Asp	Arg
65				70					75					80	
Lys	Leu	Leu	Asp	Pro	Ile	Glu	Gly	Asp	Thr	Tyr	Glu	Ala	Gly	Leu	Lys
			85					90						95	
Ala	Ala	Phe	Phe	Asp	Gly	Arg	Leu	Asn	Ala	Ser	Phe	Ala	Ala	Phe	Arg
			100					105						110	
Ile	Glu	Gln	Asp	Asn	Val	Ala	Gln	Tyr	Val	Ser	Gly	Phe	Glu	Thr	Asp
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<210> 1347

<211> 415

<212> DNA

<213> Homo sapiens

<400> 1347

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120  
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240  
acccecccaa accgatteca ggaagcccaa agggcgggcc cctctgccgc agcactgcct  
300  
tcacgtttac ttccatcccg gcctcctcct tccctaagg cttggcatgc aacatccctg  
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415

<210> 1348

<211> 105

<212> PRT

<213> Homo sapiens

&lt;400&gt; 1348

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Ser Pro Ala Ser Gly Asn Phe Gly Lys Thr Ala Leu Val Pro Ser Arg
          35           40           45
Ala Leu Phe Ser Arg Leu Ala Pro Pro Ser Lys Met Glu Phe Leu Lys
          50           55           60
Ser Lys Val Leu Gln Leu Phe Leu Ile Phe Tyr Pro Gln Pro Leu Ala
65           70           75           80
Gly Phe Pro Arg Pro Ser Gln Ser Leu Ile Asn Ala Ser Trp Asn Glu
          85           90           95
Arg Met Arg Ala Cys Pro Glu Gly Gly
          100          105

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&lt;210&gt; 1349

&lt;211&gt; 924

&lt;212&gt; DNA

&lt;213&gt; Homo sapiens

&lt;400&gt; 1349

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924

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<210> 1350  
 <211> 209  
 <212> PRT  
 <213> Homo sapiens

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 Gly Leu Pro Val Ile Val Lys Pro Ala Arg Gly Gly Ser Ser Leu Gly  
 35 40 45  
 Val Thr Lys Val Asp Gly Val Asp Asp Leu Pro Gln Ala Val Ala Asn  
 50 55 60  
 Ala Tyr Ala Tyr Asp Asp Met Val Val Val Glu Glu Phe Ile Val Gly  
 65 70 75 80  
 Asn Glu Leu Ala Ile Gly Met Ile Thr Thr Ser Glu Gly Thr Arg Val  
 85 90 95  
 Leu Pro Ala Val Glu Ile Arg Pro Val Gly Gly Val Tyr Asp Tyr Ser  
 100 105 110  
 Ala Met Tyr Thr Gly Gly Glu Thr Arg Leu Thr Ala Pro Ala Asp Ile  
 115 120 125  
 Ser Asp Thr Ala Ala Gln Thr Ala Thr Ala Met Ala Arg Val Val Gln  
 130 135 140  
 Lys Glu Leu Asp Phe Ser Gly Ile Ser Arg Val Asp Ala Ile Val Asp  
 145 150 155 160  
 Glu Ser Gly Arg Pro Val Phe Leu Glu Ala Gly Ala Ala Pro Gly Met  
 165 170 175  
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 180 185 190  
 Leu Gly Glu Val Cys Ser Arg Leu Val Asp Asp Val Ala Arg Asn His  
 195 200 205  
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<210> 1351  
 <211> 398  
 <212> DNA  
 <213> Homo sapiens

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 300  
 atgctcccca gcatgccgac gtccgcacgc acggggagcg cggcgatcga tcgcaccatc  
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398

<210> 1352  
<211> 70  
<212> PRT  
<213> Homo sapiens

<400> 1352  
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20 25 30  
Leu His Pro Gly Leu Leu Ile Val Asp His Ile His Phe Gln Tyr Asn  
35 40 45  
Gly Phe Leu Ile Arg Gly Pro Leu Tyr Arg Leu Gly Ala Arg Thr Asp  
50 55 60  
Ala Ser Ala Leu Phe Leu  
65 70

<210> 1353  
<211> 480  
<212> DNA  
<213> Homo sapiens

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<210> 1354  
<211> 160  
<212> PRT  
<213> Homo sapiens

<400> 1354  
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20 25 30  
Val Arg Gly Ile Gly Gln Pro Arg Gly Asn Met Leu Leu Val Gly Ile

	35		40		45	
Gly	Gly Ser Gly Arg Gln Ser Leu Ala Arg Leu Ala Ser Ser Ile Cys					
	50		55		60	
Asp	Tyr Thr Thr Phe Gln Ile Glu Val Thr Lys His Tyr Arg Lys Gln					
	65		70		75	
Glu	Phe Arg Asp Asp Ile Lys Arg Leu Tyr Arg Gln Ala Gly Val Glu					
	85		90		95	
Leu	Lys Thr Thr Ser Phe Ile Phe Val Asp Thr Gln Ile Ala Asp Glu					
	100		105		110	
Ser	Phe Leu Glu Asp Ile Asn Asn Ile Leu Ser Ser Gly Glu Val Pro					
	115		120		125	
His	Leu Phe Arg Pro Asp Glu Phe Glu Glu Ile Gln Ser His Ile Ile					
	130		135		140	
Asp	Gln Ala Arg Val Glu Gln Val Pro Glu Ser Ser Asp Ser Leu Phe					
	145		150		155	
						160

&lt;210&gt; 1355

&lt;211&gt; 1063

&lt;212&gt; DNA

&lt;213&gt; Homo sapiens

&lt;400&gt; 1355

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840
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960

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<210> 1356  
 <211> 244  
 <212> PRT  
 <213> Homo sapiens

<400> 1356  
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 35 40 45  
 Thr Ala Asn Ser Ala Asn Glu Cys Gln Ser Cys Asn Cys Tyr Gly His  
 50 55 60  
 Ala Thr Asp Cys Tyr Tyr Asp Pro Glu Val Asp Arg Arg Arg Ala Ser  
 65 70 75 80  
 Gln Ser Leu Asp Gly Thr Tyr Gln Gly Gly Val Cys Ile Asp Cys  
 85 90 95  
 Gln His His Thr Ala Gly Val Asn Cys Glu Arg Cys Leu Pro Gly Phe  
 100 105 110  
 Tyr Arg Ser Pro Asn His Pro Leu Asp Ser Pro His Val Cys Arg Arg  
 115 120 125  
 Cys Asn Cys Glu Ser Asp Phe Thr Asp Gly Thr Cys Glu Asp Leu Thr  
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 Gly Arg Cys Tyr Cys Arg Pro Asn Phe Ser Gly Glu Arg Cys Asp Val  
 145 150 155 160  
 Cys Ala Glu Gly Phe Thr Gly Phe Pro Ser Cys Tyr Pro Thr Pro Ser  
 165 170 175  
 Ser Ser Asn Asp Thr Arg Glu Gln Val Leu Pro Ala Gly Gln Ile Val  
 180 185 190  
 Asn Cys Asp Cys Ser Ala Ala Gly Thr Gln Gly Asn Ala Cys Arg Lys  
 195 200 205  
 Asp Pro Arg Val Gly Arg Cys Phe Ala Asn Pro Asn Phe Gln Gly Thr  
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 Ser Leu His Ala

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 <211> 663  
 <212> DNA  
 <213> Homo sapiens

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 663

&lt;210&gt; 1358

&lt;211&gt; 221

&lt;212&gt; PRT

&lt;213&gt; Homo sapiens

&lt;400&gt; 1358

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			20						25					30	
Cys	Gly	Phe	Gly	Thr	Glu	Val	Glu	Phe	Asn	Thr	Pro	Val	Leu	Pro	Val
		35					40					45			
Gly	Gly	Val	Arg	Pro	Val	Ile	Leu	Gln	Arg	Pro	Gly	Trp	Cys	Pro	Gly
		50				55					60				
Val	Phe	Val	Gly	Leu	Pro	Asn	His	His	Leu	Asp	Gly	Val	Ala	Met	Trp
65				70					75					80	
Cys	Glu	Leu	Leu	Ala	Ala	Val	Phe	Cys	Ala	Arg	Ala	Cys	Leu	Ala	Trp
			85						90					95	
Leu	Gln	Glu	Ser	Leu	Ala	His	Arg	Ala	Ser	Ala	Ser	Val	Lys	Ser	Gln
			100					105					110		
Leu	Arg	Arg	Asp	Ile	Leu	Gln	Ala	Arg	Leu	Ser	Arg	Pro	Thr	Asp	Ala
		115				120						125			
Thr	Met	Pro	Ser	Arg	Thr	Leu	Ile	Ser	Leu	Met	Thr	Thr	Gly	Leu	Asp
		130				135						140			
Ala	Leu	Asp	Gly	Tyr	Ser	Lys	Tyr	Leu	Pro	Gln	Leu	Val	Leu	Ala	
145				150					155					160	
Val	Ile	Val	Pro	Ala	Val	Leu	Ala	Thr	Ala	Ile	Gly	Leu	Asn	Asp	Leu
			165						170					175	
Thr	Ser	Leu	Val	Ile	Val	Val	Val	Thr	Ile	Pro	Leu	Ile	Pro	Val	Phe
		180						185					190		
Met	Ala	Leu	Ile	Gly	Trp	Arg	Thr	Glu	Ala	Ala	Val	Ala	Lys	Arg	Phe
		195					200					205			
Lys	Val	Ala	Thr	Arg	Leu	Ala	Asn	His	Phe	Ala	Asp	Leu			

210

215

220

<210> 1359  
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 <213> Homo sapiens

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 423

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 <212> PRT  
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 Asp Val Phe Tyr Pro Leu Trp Glu Asp Asp Tyr Val Val Ala Met Pro  
 35 40 45  
 Val Gly Tyr Trp Leu Ala Asp Tyr Thr Ser Leu Ser Ile Lys Gln Ile  
 50 55 60  
 Asp Lys Gln Pro Phe Val Ser Arg Thr Pro Cys Asp Ile Leu Glu Ser  
 65 70 75 80  
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 <211> 5300  
 <212> DNA  
 <213> Homo sapiens

<400> 1361  
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2280  
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2340  
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<210> 1362

<211> 1587

<212> PRT

<213> Homo sapiens

<400> 1362

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Gln	Arg	Cys	Leu	Pro	Val	Phe	Glu	Asn	Ala	Ala	Phe	Gly	Arg	Leu	Ala
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Gln	Ala	Ser	His	Thr	Cys	Gly	Ser	Pro	Pro	Glu	Asp	Phe	Cys	Pro	His
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Val	Gly	Ala	Ala	Gly	Ala	Gly	Ala	His	Cys	Gln	Arg	Cys	Asp	Ala	Ala
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Asp	Pro	Gln	Arg	His	His	Asn	Ala	Ser	Tyr	Leu	Thr	Asp	Phe	His	Ser
			85						90					95	
Gln	Asp	Glu	Ser	Thr	Trp	Trp	Gln	Ser	Pro	Ser	Met	Ala	Phe	Gly	Val
		100						105					110		
Gln	Tyr	Pro	Thr	Ser	Val	Asn	Ile	Thr	Leu	Arg	Leu	Gly	Lys	Ala	Tyr
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Glu	Ile	Thr	Tyr	Val	Arg	Leu	Lys	Phe	His	Thr	Ser	Arg	Pro	Glu	Ser
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Phe	Ala	Ile	Tyr	Lys	Arg	Ser	Arg	Ala	Asp	Gly	Pro	Trp	Glu	Pro	Tyr
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Gln	Phe	Tyr	Ser	Ala	Ser	Cys	Gln	Lys	Thr	Tyr	Gly	Arg	Pro	Glu	Gly
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Gln	Tyr	Leu	Arg	Pro	Gly	Glu	Asp	Glu	Arg	Val	Ala	Phe	Cys	Thr	Ser
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Glu	Phe	Ser	Asp	Ile	Ser	Pro	Leu	Ser	Gly	Gly	Asn	Val	Ala	Phe	Ser
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Thr	Leu	Glu	Gly	Arg	Pro	Ser	Ala	Tyr	Asn	Phe	Glu	Glu	Ser	Pro	Gly
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Leu	Gln	Glu	Trp	Val	Thr	Ser	Thr	Glu	Leu	Leu	Ile	Ser	Leu	Asp	Arg
225						230				235					240
Leu	Asn	Thr	Phe	Gly	Asp	Asp	Ile	Phe	Lys	Asp	Pro	Lys	Val	Leu	Gln
				245					250					255	
Ser	Tyr	Tyr	Tyr	Ala	Val	Ser	Asp	Phe	Ser	Val	Gly	Gly	Arg	Cys	Lys

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Cys Asn Gly His Ala Ser Glu Cys Gly Pro Asp Val Ala Gly Gln Leu
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Ala Cys Arg Cys Gln His Asn Thr Thr Gly Thr Asp Cys Glu Arg Cys
      290                295                300
Leu Pro Phe Phe Gln Asp Arg Pro Trp Ala Arg Gly Thr Ala Glu Ala
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Ala His Glu Cys Leu Pro Cys Asn Cys Ser Gly Arg Ser Glu Glu Cys
      325                330                335
Thr Phe Asp Arg Glu Leu Phe Arg Ser Thr Gly His Gly Gly Arg Cys
      340                345                350
His His Cys Arg Asp His Thr Ala Gly Pro His Cys Glu Arg Cys Gln
      355                360                365
Glu Asn Phe Tyr His Trp Asp Pro Arg Met Pro Cys Gln Pro Cys Asp
      370                375                380
Cys Gln Ser Ala Gly Ser Leu His Leu Gln Cys Asp Asp Thr Gly Thr
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Cys Ala Cys Lys Pro Thr Val Thr Gly Trp Lys Cys Asp Arg Cys Leu
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Pro Gly Phe His Ser Leu Ser Glu Gly Gly Cys Arg Pro Cys Thr Cys
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      435                440                445
Pro Cys Lys Glu Asn Val Glu Gly Asn Leu Cys Asp Arg Cys Arg Pro
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Phe Cys Tyr Gly His Ser Lys Val Cys Ala Ser Thr Ala Gln Phe Gln
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Gly Val Leu Leu Ser Pro Glu Asp Glu Glu Glu Leu Thr Ala Pro Gly
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Lys Phe Leu Gly Asp Gln Arg Phe Ser Tyr Gly Gln Pro Leu Ile Leu
      545                550                555                560
Thr Phe Arg Val Pro Pro Gly Asp Ser Pro Leu Pro Val Gln Leu Arg
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Leu Glu Gly Thr Gly Leu Ala Leu Ser Leu Arg His Ser Ser Leu Ser
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Gly Pro Gln Asp Ala Arg Ala Ser Gln Gly Gly Arg Ala Gln Val Pro
      595                600                605
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Phe Gln Arg Leu Leu Ala Asn Leu Thr Ser Leu Arg Leu Arg Val Ser
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Pro Gly Pro Ser Pro Ala Gly Pro Val Phe Leu Thr Glu Val Arg Leu
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Cys Ser Cys Pro Thr Gly Tyr Thr Gly Gln Phe Cys Glu Ser Cys Ala
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Pro Gly Tyr Lys Arg Glu Met Pro Gln Gly Gly Pro Tyr Ala Ser Cys

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Leu Pro Gly Phe Tyr Gly	Asn Pro Phe Ala Gly Gln	Ala Asp Asp Cys
	740	745
Gln Pro Cys Pro Cys Pro	Gly Gln Ser Ala Cys Thr	Thr Ile Pro Glu
	755	760
Ser Gly Glu Val Val Cys	Thr His Cys Pro Pro Gly	Gln Arg Gly Arg
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Arg Cys Glu Val Cys Asp	Asp Gly Phe Phe Gly Asp	Pro Leu Gly Leu
	785	790
Phe Gly His Pro Gln Pro	Cys His Gln Cys Gln Cys	Ser Gly Asn Val
	805	810
Asp Pro Asn Ala Val Gly	Asn Cys Asp Pro Leu Ser	Gly His Cys Leu
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Arg Cys Leu His Asn Thr	Thr Gly Asp His Cys Glu	His Cys Gln Glu
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Gly Phe Tyr Gly Ser Ala	Leu Ala Pro Arg Pro Ala	Asp Lys Cys Met
	850	855
Pro Cys Ser Cys His Pro	Gln Gly Ser Val Ser Glu	Gln Met Pro Cys
	865	870
Asp Pro Val Thr Gly Gln	Cys Ser Cys Leu Pro His	Val Thr Ala Arg
	885	890
Asp Cys Ser Arg Cys Tyr	Pro Gly Phe Phe Asp Leu	Gln Pro Gly Arg
	900	905
Gly Cys Arg Ser Cys Lys	Cys His Pro Leu Gly Ser	Gln Glu Asp Gln
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Cys His Pro Lys Thr Gly	Gln Cys Thr Cys Arg Pro	Gly Val Thr Gly
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Gly Cys Arg Ala Cys Arg	Cys Ser Pro Leu Gly Ala	Ala Ser Ala Gln
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Cys His Tyr Asn Gly Thr	Cys Val Cys Arg Pro Gly	Phe Glu Gly Tyr
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Lys Cys Asp Arg Cys His	Tyr Asn Phe Phe Leu Thr	Ala Asp Gly Thr
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His Cys Gln Gln Cys Pro	Ser Cys Tyr Ala Leu Val	Lys Glu Glu Thr
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Ala Lys Leu Lys Ala Arg	Leu Thr Leu Thr Glu Gly	Trp Leu Gln Gly
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Ser Asp Cys Gly Ser Pro	Trp Gly Pro Leu Asp	Ile Leu Leu Gly Glu
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Ala Pro Arg Gly Asp Val	Tyr Gln Gly His His Leu	Leu Pro Gly Ala
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Arg Glu Ala Phe Leu Glu	Gln Met Met Gly Leu Glu	Gly Ala Val Lys
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Ala Ala Arg Glu Gln Leu	Gln Arg Leu Asn Lys Gly	Ala Arg Cys Ala
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Gln Ala Gly Ser Gln Lys	Thr Cys Thr Gln Leu Ala	Asp Leu Glu Ala
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Val Leu Glu Ser Ser Glu	Glu Glu Ile Leu His Ala	Ala Ala Ile Leu
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Ala Ser Leu Glu Ile Pro Gln Glu Gly Pro Ser Gln Pro Thr Lys Trp					
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Ser His Leu Ala Ile Glu Ala Arg Ala Leu Ala Arg Ser His Arg Asp					
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Thr Ala Thr Lys Ile Ala Ala Thr Ala Trp Arg Ala Leu Leu Ala Ser					
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Asn Thr Ser Tyr Ala Leu Leu Trp Asn Leu Leu Glu Gly Arg Val Ala					
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Leu Glu Thr Gln Arg Asp Leu Glu Asp Arg Tyr Gln Glu Val Gln Ala					
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Ala Gln Lys Ala Leu Arg Thr Ala Val Ala Glu Val Leu Pro Glu Ala					
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Glu Ser Val Leu Ala Thr Val Arg Gln Val Gly Ala Asp Thr Ala Pro					
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Tyr Leu Ala Leu Leu Ala Ser Pro Gly Ala Leu Pro Gln Lys Ser Arg					
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Ala Glu Asp Leu Gly Leu Lys Ala Lys Ala Leu Glu Lys Thr Val Ala					
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Arg Leu Thr Ala Thr Phe Ala Ser Gln Leu His Gln Glu Ala Arg Ala					
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Met Gly Ala Arg Thr Leu Leu Ala Asp Leu Glu Gly Met Lys Leu Gln					
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Phe Pro Arg Pro Lys Asp Gln Ala Ala Leu Gln Arg Lys Ala Asp Ser					
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Val Ser Asp Arg Leu Leu Ala Asp Thr Arg Lys Lys Thr Lys Gln Ala					
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Glu Arg Met Leu Gly Asn Ala Ala Pro Leu Ser Ser Ser Ala Lys Lys					
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Lys Gly Arg Glu Ala Glu Val Leu Ala Lys Asp Ser Ala Lys Leu Ala					
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Lys Ala Leu Leu Arg Glu Arg Lys Gln Ala His Arg Arg Ala Ser Arg					
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Leu Ala Ser Glu Ala Arg Arg Gln Glu Leu Glu Glu Ala Glu Arg Val					
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Gly Ala Gly Leu Ser Glu Met Glu Gln Gln Ile Arg Glu Ser Arg Ile					
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Ser Leu Glu Lys Asp Ile Glu Thr Leu Ser Glu Leu Leu Ala Arg Leu					
	1490		1495		1500
Gly Ser Leu Asp Thr His Gln Ala Pro Ala Gln Ala Leu Asn Glu Thr					
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Gln Trp Ala Leu Glu Arg Leu Arg Leu Gln Leu Gly Ser Pro Gly Ser					
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Leu Gln Arg Lys Leu Ser Leu Leu Glu Gln Glu Ser Gln Gln Gln Glu					
	1540		1545		1550
Leu Gln Ile Gln Gly Phe Glu Ser Asp Leu Ala Glu Ile Arg Ala Asp					

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<211> 392
<212> DNA
<213> Homo sapiens

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<210> 1364
<211> 104
<212> PRT
<213> Homo sapiens

<400> 1364
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Cys Met Ser Cys Val Ser Ala Ser Pro Thr Gly His Gln Glu Gly Leu
      35      40      45
Phe Met Val Ala Pro Pro Met Arg His Leu His Leu Pro Ser His Pro
      50      55      60
Leu Lys Gln Pro His Leu Cys Arg Phe Arg Arg Phe Leu Leu Arg Leu
      65      70      75      80
Arg Ala Gln Arg Gly Phe Pro Leu Arg Pro Cys Leu Arg Trp Arg Leu
      85      90      95
Arg Leu Gln Trp Arg Leu Tyr Pro
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<210> 1365
<211> 451
<212> DNA
<213> Homo sapiens

<400> 1365

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 451

&lt;210&gt; 1366

&lt;211&gt; 150

&lt;212&gt; PRT

&lt;213&gt; Homo sapiens

&lt;400&gt; 1366

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 Pro Trp Asn Glu Val Asp Glu Val Trp Pro Asn Val Phe Ile Ala Glu  
 35 40 45  
 Lys Ser Val Ala Val Asn Lys Gly Arg Leu Lys Arg Leu Gly Ile Thr  
 50 55 60  
 His Ile Leu Asn Ala Ala His Gly Thr Gly Val Tyr Thr Gly Pro Glu  
 65 70 75 80  
 Phe Tyr Thr Gly Leu Glu Ile Gln Tyr Leu Gly Val Glu Val Asp Asp  
 85 90 95  
 Phe Pro Glu Val Asp Ile Ser Gln His Phe Arg Lys Ala Ser Glu Phe  
 100 105 110  
 Leu Asp Glu Ala Leu Leu Thr Tyr Arg Gly Lys Val Leu Val Ser Ser  
 115 120 125  
 Glu Met Gly Ile Ser Arg Ser Ala Val Leu Val Val Ala Tyr Leu Met  
 130 135 140  
 Ile Phe His Asn Met Ala  
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&lt;210&gt; 1367

&lt;211&gt; 330

&lt;212&gt; DNA

&lt;213&gt; Homo sapiens

&lt;400&gt; 1367

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 <211> 82  
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 <213> Homo sapiens

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 <211> 356  
 <212> DNA  
 <213> Homo sapiens

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 240  
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 356

<210> 1370  
 <211> 104  
 <212> PRT  
 <213> Homo sapiens

<400> 1370  
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      35           40           45
Val Glu Gly Glu Ser Ser Gly Ala Gly Leu Ser Ala Asp Arg Arg Arg
      50           55           60
Ser Leu Cys Ala Arg Glu Phe Arg Lys Leu Gly Phe Ser Asn Ser Asn
      65           70           75           80
Pro Ala Gln Asp Leu Glu Arg Val Pro Pro Gly Leu Leu Ala Leu Asp
      85           90           95
Asn Met Leu Tyr Phe Ser Arg Asn
      100

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&lt;210&gt; 1371

&lt;211&gt; 648

&lt;212&gt; DNA

&lt;213&gt; Homo sapiens

&lt;400&gt; 1371

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&lt;210&gt; 1372

&lt;211&gt; 101

&lt;212&gt; PRT

&lt;213&gt; Homo sapiens

&lt;400&gt; 1372

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Met Phe Gln Val Pro Ser Phe Leu Cys Leu Leu Phe Ser Trp Val Leu
      1           5           10           15
Cys Pro Leu Arg Ser Leu Leu Ser Ser Phe Pro Leu Leu Ser Leu
      20           25           30
Phe Leu Phe Val Glu Arg Ala Val Arg Leu Thr Gln Gln Leu Leu Glu

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      35              40              45
Cys Leu Gly His Leu Arg Ala Trp Lys Val His Ala Leu Thr Arg Val
  50              55              60
Met Thr Thr Ile Ser Pro Lys Leu Ser Ser Cys His Pro Ile Gly Ser
  65              70              75              80
Ile Asp Gln Lys Gly Lys Ser Ser Val Leu Lys Leu Ile Asn Gln Leu
      85              90              95
Lys Leu Tyr Leu Gln
      100

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<210> 1373  
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 <212> DNA  
 <213> Homo sapiens

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<210> 1374  
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 <212> PRT  
 <213> Homo sapiens

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<400> 1374
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      20              25              30
Glu Leu Phe Val Arg Cys Thr Thr Glu Asn Leu Ala Asp Gln Asn Pro
      35              40              45
Arg Leu Arg Ser Met Cys Val Pro Gly Arg Asp Thr Ser Cys Trp Arg
      50              55              60
Arg Lys Pro Ser Val Tyr Leu Glu Ala Lys Gly Phe Leu Asn Arg Gly
      65              70              75              80
Cys Ala Gly Leu Leu Lys Val Leu Thr Gln Ala Ser Glu Val Asn Pro
      85              90              95
Leu Arg

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<210> 1375  
 <211> 282

&lt;212&gt; DNA

&lt;213&gt; Homo sapiens

&lt;400&gt; 1375

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 120  
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 180  
 cattgggacg atccggaat tcgcaatgca cacggtgcag gacaccaatc tgaagagaac  
 240  
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 282

&lt;210&gt; 1376

&lt;211&gt; 59

&lt;212&gt; PRT

&lt;213&gt; Homo sapiens

&lt;400&gt; 1376

Xaa Ala Phe Asp Arg Ala Thr Arg Gly His Val Ile Asp Tyr Ile Asp  
 1 5 10 15  
 Phe His Leu His Gly Trp His Trp Pro Ala Phe Asn Ile Ala Asp Met  
 20 25 30  
 Ala Ile Val Gly Gly Ala Ile Ala Leu Val Ala Gln Ser Phe Met Ser  
 35 40 45  
 Val Glu Asn Pro Ala Ala Thr Lys Glu Ser Gln  
 50 55

&lt;210&gt; 1377

&lt;211&gt; 6306

&lt;212&gt; DNA

&lt;213&gt; Homo sapiens

&lt;400&gt; 1377

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&lt;210&gt; 1378

&lt;211&gt; 798

&lt;212&gt; PRT

&lt;213&gt; Homo sapiens

&lt;400&gt; 1378

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 Leu Pro Glu Leu Asp Leu Ser Glu Leu Asp Val Asn Asp Leu Asp Thr  
 35 40 45  
 Asp Ser Phe Leu Gly Gly Leu Lys Trp Cys Ser Asp Gln Ser Glu Ile  
 50 55 60  
 Ile Ser Asn Gln Tyr Asn Asn Glu Pro Ser Asn Ile Phe Glu Lys Ile  
 65 70 75 80  
 Asp Glu Glu Asn Glu Ala Asn Leu Leu Ala Val Leu Thr Glu Thr Leu  
 85 90 95  
 Asp Ser Leu Pro Val Asp Glu Asp Gly Leu Pro Ser Phe Asp Ala Leu  
 100 105 110  
 Thr Asp Gly Asp Val Thr Thr Asp Asn Glu Ala Ser Pro Ser Ser Met

115	120	125
Pro Asp Gly Thr Pro Pro Pro Gln Glu Ala Glu Glu Pro Ser Leu Leu		
130	135	140
Lys Lys Leu Leu Leu Ala Pro Ala Asn Thr Gln Leu Ser Tyr Asn Glu		
145	150	155
Cys Ser Gly Leu Ser Thr Gln Asn His Ala Asn His Asn His Arg Ile		
165	170	175
Arg Thr Asn Pro Ala Ile Val Lys Thr Glu Asn Ser Trp Ser Asn Lys		
180	185	190
Ala Lys Ser Ile Cys Gln Gln Gln Lys Pro Gln Arg Arg Pro Cys Ser		
195	200	205
Glu Leu Leu Lys Tyr Leu Thr Thr Asn Asp Asp Pro Pro His Thr Lys		
210	215	220
Pro Thr Glu Asn Arg Asn Ser Ser Arg Asp Lys Cys Thr Ser Lys Lys		
225	230	235
Lys Ser His Thr Gln Ser Gln Ser Gln His Leu Gln Ala Lys Pro Thr		
245	250	255
Thr Leu Ser Leu Pro Leu Thr Pro Glu Ser Pro Asn Asp Pro Lys Gly		
260	265	270
Ser Pro Phe Glu Asn Lys Thr Ile Glu Arg Thr Leu Ser Val Glu Leu		
275	280	285
Ser Gly Thr Ala Gly Leu Thr Pro Pro Thr Thr Pro Pro His Lys Ala		
290	295	300
Asn Gln Asp Asn Pro Phe Arg Ala Ser Pro Lys Leu Lys Ser Ser Cys		
305	310	315
Lys Thr Val Val Pro Pro Pro Ser Lys Lys Pro Arg Tyr Ser Glu Ser		
325	330	335
Ser Gly Thr Gln Gly Asn Asn Ser Thr Lys Lys Gly Pro Glu Gln Ser		
340	345	350
Glu Leu Tyr Ala Gln Leu Ser Lys Ser Ser Val Leu Thr Gly Gly His		
355	360	365
Glu Glu Arg Lys Thr Lys Arg Pro Ser Leu Arg Leu Phe Gly Asp His		
370	375	380
Asp Tyr Cys Gln Ser Ile Asn Ser Lys Thr Glu Ile Leu Ile Asn Ile		
385	390	395
Ser Gln Glu Leu Gln Asp Ser Arg Gln Leu Glu Asn Lys Asp Val Ser		
405	410	415
Ser Asp Trp Gln Gly Gln Ile Cys Ser Ser Thr Asp Ser Asp Gln Cys		
420	425	430
Tyr Leu Arg Glu Thr Leu Glu Ala Ser Lys Gln Val Ser Pro Cys Ser		
435	440	445
Thr Arg Lys Gln Leu Gln Asp Gln Glu Ile Arg Ala Glu Leu Asn Lys		
450	455	460
His Phe Gly His Pro Ser Gln Ala Val Phe Asp Asp Glu Ala Asp Lys		
465	470	475
Thr Gly Glu Leu Arg Asp Ser Asp Phe Ser Asn Glu Gln Phe Ser Lys		
485	490	495
Leu Pro Met Phe Ile Asn Ser Gly Leu Ala Met Asp Gly Leu Phe Asp		
500	505	510
Asp Ser Glu Asp Glu Ser Asp Lys Leu Ser Tyr Pro Trp Asp Gly Thr		
515	520	525
Gln Ser Tyr Ser Leu Phe Asn Val Ser Pro Ser Cys Ser Ser Phe Asn		
530	535	540
Ser Pro Cys Arg Asp Ser Val Ser Pro Pro Lys Ser Leu Phe Ser Gln		

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545          550          555          560
Arg Pro Gln Arg Met Arg Ser Arg Ser Arg Ser Phe Ser Arg His Arg
          565          570          575
Ser Cys Ser Arg Ser Pro Tyr Ser Arg Ser Arg Ser Arg Ser Pro Gly
          580          585          590
Ser Arg Ser Ser Ser Arg Ser Cys Tyr Tyr Tyr Glu Ser Ser His Tyr
          595          600          605
Arg His Arg Thr His Arg Asn Ser Pro Leu Tyr Val Arg Ser Arg Ser
          610          615          620
Arg Ser Pro Tyr Ser Arg Arg Pro Arg Tyr Asp Ser Tyr Glu Glu Tyr
          625          630          635          640
Gln His Glu Arg Leu Lys Arg Glu Glu Tyr Arg Arg Glu Tyr Glu Lys
          645          650          655
Arg Glu Ser Glu Arg Ala Lys Gln Arg Glu Arg Gln Arg Gln Lys Ala
          660          665          670
Ile Glu Glu Arg Arg Val Ile Tyr Val Gly Lys Ile Arg Pro Asp Thr
          675          680          685
Thr Arg Thr Glu Leu Arg Asp Arg Phe Glu Val Phe Gly Glu Ile Glu
          690          695          700
Glu Cys Thr Val Asn Leu Arg Asp Asp Gly Asp Ser Tyr Gly Phe Ile
          705          710          715          720
Thr Tyr Arg Tyr Thr Cys Asp Ala Phe Ala Ala Leu Glu Asn Gly Tyr
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Thr Leu Arg Arg Ser Asn Glu Thr Asp Phe Glu Leu Tyr Phe Cys Gly
          740          745          750
Arg Lys Gln Phe Phe Lys Ser Asn Tyr Ala Asp Leu Asp Ser Asn Ser
          755          760          765
Asp Asp Phe Asp Pro Ala Ser Thr Lys Ser Lys Tyr Asp Ser Leu Asp
          770          775          780
Phe Asp Ser Leu Leu Lys Glu Ala Gln Arg Ser Leu Arg Arg
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&lt;210&gt; 1379

&lt;211&gt; 590

&lt;212&gt; DNA

&lt;213&gt; Homo sapiens

&lt;400&gt; 1379

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<210> 1380  
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 <212> PRT  
 <213> Homo sapiens

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 20 25 30  
 Cys Pro Cys Arg Val Ala Ala Ser Pro Ile Ser Ala Leu Gly Val Pro  
 35 40 45  
 Ala Leu Trp Pro Arg His Pro Ser Leu Pro Ser Glu Ser Leu Pro Cys  
 50 55 60  
 Gly Arg Val Xaa Pro Ser Leu Pro Ser Glu Ser Leu Pro Cys Gly Arg  
 65 70 75 80  
 Val Xaa Pro Pro Leu Pro Ser Val Ser Leu Pro Cys Gly Arg Val Xaa  
 85 90 95  
 Pro Pro Leu Pro Ser Val Ser Leu Pro Cys Gly Arg Val Xaa Pro Pro  
 100 105 110  
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 Ser Val Ser Pro Pro Cys Gly Arg Val Thr His Leu Cys  
 130 135 140

<210> 1381  
 <211> 433  
 <212> DNA  
 <213> Homo sapiens

<400> 1381  
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<210> 1382

&lt;211&gt; 123

&lt;212&gt; PRT

&lt;213&gt; Homo sapiens

&lt;400&gt; 1382

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Met Met Cys Glu Ser Ala Asp His Ala Gly Pro Leu Asp Glu Ala Cys
 1           5           10           15
Thr Phe Trp Pro Arg Pro Asp Thr Met Cys Glu Ala Thr Glu Ser Pro
           20           25           30
Gly Arg Ser Thr Leu Thr Ala Leu Ala Lys His Ser Phe Pro Cys Pro
           35           40           45
Gly Cys His Gln Arg Gly Gly Arg Ser His Arg Ser Ala Leu Val Ser
           50           55           60
Ala Gly Leu Lys Trp Gly Phe Ser Phe Cys Val Glu Gln Phe Ile Arg
65           70           75           80
Gly Leu Ile Ser Lys Pro Arg His Trp Pro Cys Thr Cys Ser Ser Arg
           85           90           95
Lys Pro Asn Ser Cys Leu Trp Ala Pro Ala Tyr Arg Gln Pro Asn Gly
           100          105          110
Leu Ala Pro Ala Lys Gly Leu Phe Gly Asp Leu
           115          120

```

&lt;210&gt; 1383

&lt;211&gt; 906

&lt;212&gt; DNA

&lt;213&gt; Homo sapiens

&lt;400&gt; 1383

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60
caccacagca cacctgcctc tggcttcgag gccaaagtgg cccctatgtc aaccagggtt
120
tctgcagctg gtccctgggag acccacggcc tctctctctc tgccctcgac caatacacca
180
caaacgcctc acatgagctc acccacccc ccaagagcca tgggtgctcac aaagcaaaaga
240
ccaagccaga ctcaatcctg tggccccagg gtcagccgca gaggagacaa ctagaacctc
300
acaagaagct gaacacaggc tgggtcacct ataaacaggg agggccatct gaagggagga
360
agcaccacaac cagaggtgaa ctacacctgg accattcgac aatgcagtc aggcagaagt
420
aatgggcaca gttctncgg cgteccccac gcttggtctc tgaatgcgt gagacagatt
480
gggcagctct ctgcatcatc atcagaattg aaagagccag cggcttcag ttccccctga
540
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600
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660
tcgctgtcac tgtctcccc agagtcccc ctgctgcccc cgctgctttc ttcaaaagta
720
cctgccgggt ccgcagggcc gacctgtggg tgtccatccg gccctgggct ccggggccaca
780

```

agctcatcca ggctgtcgtc atccattgct gcacattgag ctcagctccg gaaacctcgt  
 840  
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 900  
 cggccg  
 906

<210> 1384  
 <211> 97  
 <212> PRT  
 <213> Homo sapiens

<400> 1384  
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 1 5 10 15  
 Lys Val Thr Thr His His Ser Thr Pro Ala Ser Gly Leu Gln Ala Lys  
 20 25 30  
 Met Ala Pro Met Ser Thr Arg Val Ser Ala Ala Gly Pro Gly Arg Pro  
 35 40 45  
 Thr Ala Ser Ser Leu Leu Pro Leu Thr Asn Thr Pro Gln Thr Pro His  
 50 55 60  
 Met Ser Ser Pro Thr Pro Pro Arg Ala Met Val Leu Thr Lys Gln Arg  
 65 70 75 80  
 Pro Ser Gln Thr Gln Ser Cys Gly Pro Arg Val Ser Arg Arg Ala Asp  
 85 90 95  
 Asn

<210> 1385  
 <211> 210  
 <212> DNA  
 <213> Homo sapiens

<400> 1385  
 acgcgtgcac tgggtgtatg catggtaacg tacacgtgtg cactgtgtgt ggtgtgcatg  
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 120  
 gtggcggtgta tgcattggtgt gtgcacgtgt gcactgtgtg tgggggtgtat gncattggtg  
 180  
 gtgcacatat gcactggggg gtgtgtatgc  
 210

<210> 1386  
 <211> 70  
 <212> PRT  
 <213> Homo sapiens

<400> 1386  
 Thr Arg Ala Leu Gly Val Cys Met Val Thr Tyr Thr Cys Ala Leu Cys  
 1 5 10 15  
 Val Val Cys Met Xaa Trp Cys Val His Val Cys Xaa Cys Val Cys Met  
 20 25 30  
 Val Met Cys Thr Cys Ala Leu Cys Val Ala Cys Met His Gly Val Cys

```

      35              40              45
r Cys Ala Leu Cys Val Gly Cys Met Xaa Trp Trp Val His Ile Cys
      50              55              60
Thr Gly Gly Cys Val Cys
      65              70

```

&lt;210&gt; 1387

&lt;211&gt; 521

&lt;212&gt; DNA

&lt;213&gt; Homo sapiens

&lt;400&gt; 1387

```

ggccgcaact ccaccagcga aggcgatgtg cgggcccatg aagggaccaa aggccaggta
60
gtccaagccg aaggtgtttc cggttgcggc aaacactccc caggaggcca gcacacagaa
120
gccgggtgag acgaaggcgt agttgccgcc gatggcagct ccgacagcac gcgccggcat
180
ggcggcaagg agtccgaaga cgaagactcc gatagaggtg gtgaacatcg gtgttccttt
240
gtgagggcgg ggtatccgc gatctgtcat ccgcacgcag cgacgggtgc ggcatcttct
300
ggacatccct aggcgttgac ccaggggtgg ggtggttcag acgtgtgccg gcgcacgtct
360
gaaccacccc gtatcagcag gtgccagggg cggattcccc agcacctgac tcatatgcgt
420
cgatgagatc gatgttgccc ttggagtggtg aactcgggtc gaaggtgtac ccgatgaact
480
cgtgggctaa gcgacgggcg agttcgcgac cgatgacgcg t
521

```

&lt;210&gt; 1388

&lt;211&gt; 103

&lt;212&gt; PRT

&lt;213&gt; Homo sapiens

&lt;400&gt; 1388

```

Gly Arg Asn Ser Thr Ser Glu Gly Asp Val Arg Ala His Glu Gly Thr
1              5              10              15
Lys Gly Gln Val Val Gln Ala Glu Gly Val Ser Gly Cys Gly Lys His
20              25              30
Ser Pro Gly Gly Gln His Thr Glu Ala Gly Glu Asp Glu Gly Val Val
35              40              45
Ala Ala Asp Gly Ser Ser Asp Ser Thr Ala Gly Asp Gly Gly Lys Glu
50              55              60
Ser Glu Asp Glu Asp Ser Asp Arg Gly Gly Glu His Arg Cys Ser Phe
65              70              75              80
Val Arg Ala Gly Tyr Pro Ala Ile Cys His Pro His Ala Ala Thr Gly
85              90              95
Ala Ala Phe Ser Gly His Pro
100

```

&lt;210&gt; 1389

&lt;211&gt; 4013

&lt;212&gt; DNA

&lt;213&gt; Homo sapiens

&lt;400&gt; 1389

cctctgaaga tggaaacatc aggaatgaca acaccgtcac tgaagacaga cgggtgggaga  
60  
cgcacagcca catcaccacc cccacaacc tcccagacca tcatttcac cattcccagc  
120  
actgccatgc acaccgctc cacagctgcc cccatcccca tcctgcctga gagaggagtt  
180  
tcctcttttc cctatggggc agacgccggg gacctggagt tcgtcaggag gacctggagc  
240  
ttcacctccc cactcttcaa gccggcgact ggcttcccc ttggctctct tctccgtgat  
300  
tcctctact tcacagacaa tggccagatc atcttcccag agtcagacta ccagattttc  
360  
tcctacccca acccactccc aacagggttc acaggccggg accctgtggc cctggtggct  
420  
cgtttctggg acgatgtga cttctccact ggtcggggga ccacatttta tcaggaatac  
480  
gagacgttct atggtgaaca cagcctgcta gtccagcagg ccgagtcttg gattagaaag  
540  
atcacaaaca acgggggcta caaggccagg tgggccctaa aggtcacgtg ggtcaatgcc  
600  
cacgcctatc ctgcccagtg gacctcggg agcaaacctt accaagccat cctctccagc  
660  
gacgggagca ggtcctatgc cctgtttctc taccagagcg gtgggatgca gtgggacgtg  
720  
gccccagcgt caggcaaccc ggtgctcatg ggcttctcta gtggagatgg ctatttcgaa  
780  
aacagcccca tgatgtccca gccagtgtgg gagaggatc gccctgatag attcctgaat  
840  
tccaactcag gcctccaagg gctgcagttc tacaggctac accgggaaga aaggcccaac  
900  
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1080  
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1140  
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1200  
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1800  
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1920  
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1980  
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2040  
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2100  
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2160  
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2220  
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2280  
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2400  
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3120

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3600  
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3660  
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3960  
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4013

&lt;210&gt; 1390

&lt;211&gt; 1156

&lt;212&gt; PRT

&lt;213&gt; Homo sapiens

&lt;400&gt; 1390

Pro Leu Lys Met Glu Thr Ser Gly Met Thr Thr Pro Ser Leu Lys Thr  
1 5 10 15  
Asp Gly Gly Arg Arg Thr Ala Thr Ser Pro Pro Pro Thr Thr Ser Gln  
20 25 30  
Thr Ile Ile Ser Thr Ile Pro Ser Thr Ala Met His Thr Arg Ser Thr  
35 40 45  
Ala Ala Pro Ile Pro Ile Leu Pro Glu Arg Gly Val Ser Leu Phe Pro  
50 55 60  
Tyr Gly Ala Asp Ala Gly Asp Leu Glu Phe Val Arg Arg Thr Val Asp  
65 70 75 80  
Phe Thr Ser Pro Leu Phe Lys Pro Ala Thr Gly Phe Pro Leu Gly Ser  
85 90 95  
Ser Leu Arg Asp Ser Leu Tyr Phe Thr Asp Asn Gly Gln Ile Ile Phe  
100 105 110  
Pro Glu Ser Asp Tyr Gln Ile Phe Ser Tyr Pro Asn Pro Leu Pro Thr  
115 120 125  
Gly Phe Thr Gly Arg Asp Pro Val Ala Leu Val Ala Pro Phe Trp Asp

130				135				140							
Asp	Ala	Asp	Phe	Ser	Thr	Gly	Arg	Gly	Thr	Thr	Phe	Tyr	Gln	Glu	Tyr
145					150					155					160
Glu	Thr	Phe	Tyr	Gly	Glu	His	Ser	Leu	Leu	Val	Gln	Gln	Ala	Glu	Ser
				165					170					175	
Trp	Ile	Arg	Lys	Ile	Thr	Asn	Asn	Gly	Gly	Tyr	Lys	Ala	Arg	Trp	Ala
			180					185					190		
Leu	Lys	Val	Thr	Trp	Val	Asn	Ala	His	Ala	Tyr	Pro	Ala	Gln	Trp	Thr
		195					200					205			
Leu	Gly	Ser	Asn	Thr	Tyr	Gln	Ala	Ile	Leu	Ser	Thr	Asp	Gly	Ser	Arg
	210				215						220				
Ser	Trp	Ala	Leu	Phe	Leu	Tyr	Gln	Ser	Gly	Gly	Met	Gln	Trp	Asp	Val
225					230					235					240
Ala	Gln	Arg	Ser	Gly	Asn	Pro	Val	Leu	Met	Gly	Phe	Ser	Ser	Gly	Asp
				245					250					255	
Gly	Tyr	Phe	Glu	Asn	Ser	Pro	Leu	Met	Ser	Gln	Pro	Val	Trp	Glu	Arg
			260					265					270		
Tyr	Arg	Pro	Asp	Arg	Phe	Leu	Asn	Ser	Asn	Ser	Gly	Leu	Gln	Gly	Leu
		275					280					285			
Gln	Phe	Tyr	Arg	Leu	His	Arg	Glu	Glu	Arg	Pro	Asn	Tyr	Arg	Leu	Glu
	290				295						300				
Cys	Leu	Gln	Trp	Leu	Lys	Ser	Gln	Pro	Arg	Trp	Pro	Ser	Trp	Gly	Trp
305					310					315					320
Asn	Gln	Val	Ser	Cys	Pro	Cys	Ser	Trp	Gln	Gln	Gly	Arg	Arg	Asp	Leu
			325						330					335	
Arg	Phe	Gln	Pro	Val	Ser	Ile	Gly	Arg	Trp	Gly	Leu	Gly	Ser	Arg	Gln
		340						345					350		
Leu	Cys	Ser	Phe	Thr	Ser	Trp	Arg	Gly	Gly	Val	Cys	Cys	Ser	Tyr	Gly
		355					360					365			
Pro	Trp	Gly	Glu	Phe	Arg	Glu	Gly	Trp	His	Val	Gln	Arg	Pro	Trp	Gln
	370				375						380				
Leu	Ala	Gln	Glu	Leu	Glu	Pro	Gln	Ser	Trp	Cys	Cys	Arg	Trp	Asn	Asp
385					390					395					400
Lys	Pro	Tyr	Leu	Cys	Ala	Leu	Tyr	Gln	Gln	Arg	Arg	Pro	His	Val	Gly
			405						410					415	
Cys	Ala	Thr	Tyr	Arg	Pro	Gln	Pro	Ala	Trp	Met	Phe	Gly	Asp	Pro	Gln
		420					425						430		
His	Ile	Thr	Thr	Leu	Asp	Gly	Val	Ser	Tyr	Thr	Phe	Asn	Gly	Leu	Gly
		435					440					445			
Asp	Phe	Leu	Leu	Val	Gly	Ala	Gln	Asp	Gly	Asn	Ser	Ser	Phe	Leu	Leu
	450					455				460					
Gln	Gly	Arg	Thr	Ala	Gln	Thr	Gly	Ser	Ala	Gln	Ala	Thr	Asn	Phe	Ile
465					470					475					480
Ala	Phe	Ala	Ala	Gln	Tyr	Arg	Ser	Ser	Ser	Leu	Gly	Pro	Val	Thr	Val
			485						490			</			

[illegible]

```

          995                1000                1005
Pro Arg Arg Ser Glu Glu Pro Arg Asn Asp Val Val Phe Gln Pro Ile
    1010                1015                1020
Ser Gly Glu Asp Val Arg Asp Val Thr Ala Leu Asn Val Ser Thr Leu
1025                1030                1035                1040
Lys Ala Tyr Phe Arg Cys Asp Gly Tyr Lys Gly Tyr Asp Leu Val Tyr
          1045                1050                1055
Ser Pro Gln Ser Gly Phe Thr Cys Val Ser Pro Cys Ser Arg Gly Tyr
          1060                1065                1070
Cys Asp His Gly Gly Gln Cys Gln His Leu Pro Ser Gly Pro Arg Cys
          1075                1080                1085
Ser Cys Val Ser Phe Ser Ile Tyr Thr Ala Trp Gly Glu His Cys Glu
          1090                1095                1100
His Leu Ser Met Lys Leu Asp Ala Phe Phe Gly Ile Phe Phe Gly Ala
1105                1110                1115                1120
Leu Gly Gly Leu Leu Leu Leu Gly Val Gly Thr Phe Val Val Leu Arg
          1125                1130                1135
Phe Trp Gly Cys Ser Gly Ala Arg Phe Ser Tyr Phe Leu Asn Ser Ala
          1140                1145                1150
Glu Ala Leu Pro
    1155

```

```

<210> 1391
<211> 481
<212> DNA
<213> Homo sapiens

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<400> 1391
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120
ctggcgccgc gcaaggtgct cggtaaaagc aagcagaagg ccgaggagct ggcgggtccgg
180
caactgaccc acgtgggcct gacgcacaag ctcaagacct ttcccgcana gctttccggc
240
ggccagcaac agcgcatggc gattgcccg gccttgcca tgtcgccgga ctacatgctg
300
ttcgacgaag ccacctgggc cttgatccg cagttggtgg gcgagggtgt ggacaccatg
360
cgcatgctcg ccgaagacgg catgaccatg gtcttggtga cccatgaaat ccgctttgcc
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480
c
481

```

```

<210> 1392
<211> 160
<212> PRT
<213> Homo sapiens

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<400> 1392
Val Asp Gly Ile Glu Val His Asp Lys Ala Thr Asp Leu Asn Arg Leu

```

```

      1           5           10           15
Arg Gln Lys Ile Gly Ile Val Phe Gln Gln Trp Asn Ala Phe Pro His
      20           25           30
Leu Thr Val Leu Glu Asn Val Met Leu Ala Pro Arg Lys Val Leu Gly
      35           40           45
Lys Ser Lys Gln Lys Ala Glu Glu Leu Ala Val Arg Gln Leu Thr His
      50           55           60
Val Gly Leu Ser Asp Lys Leu Lys Thr Phe Pro Ala Xaa Leu Ser Gly
      65           70           75           80
Gly Gln Gln Gln Arg Met Ala Ile Ala Arg Ala Leu Ala Met Ser Pro
      85           90           95
Asp Tyr Met Leu Phe Asp Glu Ala Thr Ser Ala Leu Asp Pro Gln Leu
      100          105          110
Val Gly Glu Val Leu Asp Thr Met Arg Met Leu Ala Glu Asp Gly Met
      115          120          125
Thr Met Val Leu Val Thr His Glu Ile Arg Phe Ala Arg Asp Val Ser
      130          135          140
Asp Arg Val Ala Phe Phe Arg Asn Gly Leu Val His Glu Ile Gly Ala
      145          150          155          160

```

<210> 1393

<211> 309

<212> DNA

<213> Homo sapiens

<400> 1393

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cggcgcgccat cggcgcgggc cttgtgggat atggccatta ctgaggtgct ggccggctac
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tacgaacccg acgaacacgg acaccgcaag cccgagtcgt tgtaccggcg ggtcaagatg
120
tgggcccttc tgcgcgctca gggcatcagg tggcccgcgtg cancggtgga ggcgcctcatg
180
cgggacaacc ggtggcgtgg ggtgaccgcg cgtaagaagg ttncgcacca ccacgcctga
240
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300
caagttgct
309

```

<210> 1394

<211> 79

<212> PRT

<213> Homo sapiens

<400> 1394

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Arg Pro Pro Ser Ala Arg Ala Leu Trp Asp Met Ala Ile Thr Glu Val
      1           5           10           15
Leu Ala Gly Tyr Tyr Glu Pro Asp Glu His Gly His Arg Lys Pro Glu
      20           25           30
Ser Leu Tyr Gly Ala Val Lys Met Trp Ala Leu Leu Arg Arg Gln Gly
      35           40           45
Ile Arg Trp Pro Ala Ala Xaa Val Glu Arg Leu Met Arg Asp Asn Arg
      50           55           60
Trp Arg Gly Val Thr Arg Arg Lys Lys Val Xaa His His His Arg

```

65

70

75

&lt;210&gt; 1395

&lt;211&gt; 347

&lt;212&gt; DNA

&lt;213&gt; Homo sapiens

&lt;400&gt; 1395

```

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60
tatgacggta  gtcgtgggcg  aaacggtgct  tctcgttttg  cgccgtcaac  gtcgaagacg
120
ccagattctt  aaaggcggtc  gcgatgttgc  cggggcgaca  agggccttgg  ctggacgggt
180
gtcgggtggg  gagatccct  cagttgcact  agagcacgtg  gccgatgacg  tggaggtatt
240
ggctcaggct  aggcgggctc  atgcagtggg  cggaagcgtt  tccgacgcc  tcattgccac
300
ctcccgga  ccagggatgg  ctggtctggt  gccactagcc  caccgct
347

```

&lt;210&gt; 1396

&lt;211&gt; 95

&lt;212&gt; PRT

&lt;213&gt; Homo sapiens

&lt;400&gt; 1396

```

Met Thr Val Val Val Gly Glu Thr Val Leu Val Val Val Arg Arg Gln
1          5          10          15
Arg Arg Arg Ala Gln Ile Leu Lys Gly Gly Arg Asp Val Ala Arg Ala
20        25        30
Thr Arg Ala Leu Ala Gly Arg Val Ser Val Gly Glu Ile Pro Ser Val
35        40        45
Ala Leu Glu His Val Ala Asp Asp Val Glu Val Leu Ala Gln Ala Arg
50        55        60
Arg Ala His Ala Val Gly Gly Ser Val Ser Asp Ala Leu Ile Ala Thr
65        70        75        80
Ser Arg Gln Pro Gly Met Ala Gly Leu Val Pro Leu Ala His Ala
85        90        95

```

&lt;210&gt; 1397

&lt;211&gt; 308

&lt;212&gt; DNA

&lt;213&gt; Homo sapiens

&lt;400&gt; 1397

```

caattgcgcy  ggttactgca  ggccaagatg  cagatgatgt  cggacaccaa  tttcctcgac
60
ctggccccgc  tcgcgattgc  cgccactatc  cattctccgg  aacgcgcgca  agacatggct
120
aaccgcctta  gaaaacgcga  agaaggcttc  acgcaatggg  tacgtgccgc  acaggacgat
180
ggtcgactgt  cctgcagcga  cccggcggtc  gctgccacc  agatacaaa  cctgctcaag
240

```

gcgttcgcct ttggccgca aatcaccttg gccagccgg tgcggatgc cgccagccag  
 300  
 gccaacgt  
 308

<210> 1398  
 <211> 93  
 <212> PRT  
 <213> Homo sapiens

<400> 1398  
 Met Gln Met Met Ser Asp Thr Asn Phe Leu Asp Leu Ala Arg Val Ala  
 1 5 10 15  
 Ile Ala Ala Thr Ile His Ser Pro Glu Arg Ala Gln Asp Met Val Asn  
 20 25 30  
 Arg Leu Ser Lys Arg Glu Glu Gly Phe Thr Gln Trp Val Arg Ala Ala  
 35 40 45  
 Gln Asp Asp Gly Arg Leu Ser Cys Ser Asp Pro Ala Phe Ala Ala His  
 50 55 60  
 Gln Ile Gln Ser Leu Leu Lys Ala Phe Ala Phe Trp Pro Gln Ile Thr  
 65 70 75 80  
 Leu Gly Gln Pro Val Leu Asp Ala Ala Ser Gln Ala Asn  
 85 90

<210> 1399  
 <211> 539  
 <212> DNA  
 <213> Homo sapiens

<400> 1399  
 gctagctaac atttattttt gtttttatta ttgttatcta tgggtaaaaa tttcttaagc  
 60  
 aatgaactga agtctagatt tttagatgt agtcctttac tgattataaa gcaaatgcct  
 120  
 ttgatatatt taacttcac agtactatct gtagtaggag gctgatttta ctaaaattag  
 180  
 ataattatat acatctgttc ctattccttt ggtaggacct ttaagaaagt catgctgaat  
 240  
 ctgagaatgc caggacatct cagtggtat gaattgtagga tattcattha cacatcgctg  
 300  
 cacagacagc ctctatataa cccaccctgt tgggggtattg aattttttct tttccgcgcc  
 360  
 tacttttaaa tcttgtcatg taatttcaac acataatttg tggcacttta gtttttttac  
 420  
 cctttatagt ttaataactt atacatgtac atgcttaaaa tgtcaaacaa tacaaatggg  
 480  
 aacaaagaaa attgcttcac catctgtgaa cccctccttt tgtagtcccc ttcacgcgt  
 539

<210> 1400  
 <211> 90  
 <212> PRT  
 <213> Homo sapiens

&lt;400&gt; 1400

```

Met Asn Val Gly Tyr Ser Phe Thr His Arg Cys Thr Asp Ser Leu Tyr
 1          5          10          15
Ile Thr His Pro Val Gly Val Leu Asn Phe Phe Phe Ser Arg Pro Thr
          20          25          30
Phe Lys Ser Cys His Val Ile Ser Thr His Asn Leu Trp His Phe Ser
          35          40          45
Phe Phe Thr Leu Tyr Ser Leu Ile Thr Tyr Thr Cys Thr Cys Leu Lys
          50          55          60
Cys Gln Thr Ile Gln Met Gly Thr Lys Lys Ile Ala Ser Pro Ser Val
65          70          75          80
Asn Pro Ser Phe Cys Ser Pro Leu His Ala
          85          90

```

&lt;210&gt; 1401

&lt;211&gt; 653

&lt;212&gt; DNA

&lt;213&gt; Homo sapiens

&lt;400&gt; 1401

```

ttcagggggt cacttggaact caagcttcgc gaagtcggg acctcggacg accgattttt
60
cggctgtgca ccgtcaccgc aaggctggcg tgggttnnct catcaccggc gcgcgatgg
120
ncattgggggt ttgatggcgc cgtttccctg ctgctgggcg cgatcctcat cgtcaccggc
180
ccaacgggtga ttaaccgat cctgcgtcag ttgcgtccta cccggcgagt gagtgcctctg
240
ttgaggtggg aaggaatcgt cgtcgatccg ctccggcgcca tcctggcatt actggtgtat
300
caggccataa ccagcatcga ccgatcttcc atcggacaag gcgtcttgaa tctggggctc
360
accctattgg tcgggctgct ctctcgtggc cccatcgggg ggatcgctac gcgatgatg
420
aaacggcacc tcatcccga cttcctacaa ggcgtgattt tcgttggggg cgccgttgga
480
acgtgtgttg gcgctaactg cattcgggag gaatcggggc tggctgccgt tacgatgtc
540
ggcatctacc tggcgaacca gcgcaacct gagcttgagc ccgtcatcga gttcaaggaa
600
cacctgcagg tgctcctcgt tggcgtccta ttcatcatgc ttgcaggacg cgt
653

```

&lt;210&gt; 1402

&lt;211&gt; 217

&lt;212&gt; PRT

&lt;213&gt; Homo sapiens

&lt;400&gt; 1402

```

Phe Glu Gly Ser Leu Gly Leu Lys Leu Arg Glu Val Arg Asp Leu Gly
 1          5          10          15
Arg Pro Ile Phe Arg Leu Cys Thr Val Thr Ala Arg Leu Ala Trp Val
          20          25          30
Xaa Ser Ser Pro Ala Arg Arg Trp Xaa Leu Gly Phe Asp Gly Arg Val

```

```

          35              40              45
Ser Leu Leu Leu Gly Ala Ile Leu Ile Val Thr Gly Pro Thr Val Ile
 50              55              60
Asn Pro Ile Leu Arg Gln Leu Arg Pro Thr Arg Arg Val Ser Ala Leu
 65              70              75              80
Leu Arg Trp Glu Gly Ile Val Val Asp Pro Leu Gly Ala Ile Leu Ala
          85              90              95
Leu Leu Val Tyr Gln Ala Ile Thr Ser Ile Asp Arg Ser Ser Ile Gly
          100              105              110
Gln Gly Val Leu Asn Leu Gly Leu Thr Leu Leu Val Gly Leu Leu Phe
          115              120              125
Ala Gly Pro Ile Gly Trp Ile Val Thr Ala Met Met Lys Arg His Leu
          130              135              140
Ile Pro Asp Phe Leu Gln Gly Val Ile Phe Val Gly Val Ala Val Gly
          145              150              155              160
Thr Cys Val Gly Ala Asn Val Ile Arg Glu Glu Ser Gly Leu Val Ala
          165              170              175
Val Thr Met Leu Gly Ile Tyr Leu Ala Asn Gln Arg Asn Leu Glu Leu
          180              185              190
Glu Pro Val Ile Glu Phe Lys Glu His Leu Gln Val Leu Leu Val Gly
          195              200              205
Val Leu Phe Ile Met Leu Ala Gly Arg
          210              215

```

&lt;210&gt; 1403

&lt;211&gt; 393

&lt;212&gt; DNA

&lt;213&gt; Homo sapiens

&lt;400&gt; 1403

```

aagctttgca gtttcttggt atccaaatcc aggcgttctt ggtctttttc cacaacagtg
 60
tgtgccacat gaaatggaac acgggcaaac atatctgatac caggaaacat tagccaagta
 120
tggtccttgg ggctatgatac tcacaaagtt gggcatatct cctttatcag ctgcttgcca
 180
gagcttcctt ccattctcttt cattatgacc tcaaaggag atggcacgct agtcttggac
 240
gtcctagctt gtttccgaag ggctgtcaga gcctccctgt taccatttct tatcttatca
 300
ttttccacca actgatgtct agccagaaga actttttctg catcagtcct aatatcaacc
 360
agagcctctt gaagctgctt catgttggga tcc
 393

```

&lt;210&gt; 1404

&lt;211&gt; 127

&lt;212&gt; PRT

&lt;213&gt; Homo sapiens

&lt;400&gt; 1404

```

Met Lys Gln Leu Gln Glu Ala Leu Val Asp Ile Glu Thr Asp Ala Glu
 1              5              10              15
Lys Val Leu Leu Ala Arg His Gln Leu Val Glu Asn Asp Lys Ile Arg

```

```

                20                25                30
Asn Gly Asn Arg Glu Ala Leu Thr Ala Leu Arg Lys Gln Ala Arg Thr
    35                40                45
Ser Lys Thr Ser Val Pro Ser Pro Phe Glu Val Ile Met Lys Glu Met
    50                55                60
Glu Gly Ser Ser Gly Lys Gln Leu Ile Lys Glu Ile Cys Pro Thr Cys
    65                70                75                80
Gly Asp His Asp Pro Lys Glu His Thr Trp Leu Met Phe Pro Gly Ser
    85                90                95
Asp Met Phe Ala Arg Val Pro Phe His Val Ala His Thr Val Val Glu
    100                105                110
Lys Asp Gln Glu Arg Leu Asp Leu Asp Thr Lys Lys Leu Gln Ser
    115                120                125

```

&lt;210&gt; 1405

&lt;211&gt; 421

&lt;212&gt; DNA

&lt;213&gt; Homo sapiens

&lt;400&gt; 1405

```

nnccgactgc acaaggccct gggcatcgaa ctgccccggc cactgcaggt catcgcaaaa
60
ggcgaaacca gcctgcaatg gctcgcccg gacgaatggc tgctgatcgt gcccgagcgt
120
gaagagttcg ccgccgagca aaacctgcgt gccgccctgg gcgagttgca tatccaggtc
180
gtcaacgtca gcggtggcca gcagatcctc gaactcagcg gcccgaaact gcgcgacgtg
240
ctgatgaaat ccaccagcta cgacgtacac cccaacaact tcccggtggg caaggcggtg
300
ggcacggtgt tcgccaagtc gcaactggtg atccgccata ccgccgaaga cacctgggaa
360
ctgctgatcc gtcgcagctt ctcggtattc tggtaggtgt ggttgaggga cgcggctgca
420
t
421

```

&lt;210&gt; 1406

&lt;211&gt; 140

&lt;212&gt; PRT

&lt;213&gt; Homo sapiens

&lt;400&gt; 1406

```

Xaa Arg Leu His Lys Ala Leu Gly Ile Glu Leu Pro Gly Ala Leu Gln
    1                5                10                15
Val Ile Val Lys Gly Glu Thr Ser Leu Gln Trp Leu Gly Pro Asp Glu
    20                25                30
Trp Leu Leu Ile Val Pro Ser Gly Glu Glu Phe Ala Ala Glu Gln Asn
    35                40                45
Leu Arg Ala Ala Leu Gly Glu Leu His Ile Gln Val Val Asn Val Ser
    50                55                60
Gly Gly Gln Gln Ile Leu Glu Leu Ser Gly Pro Asn Val Arg Asp Val
    65                70                75                80
Leu Met Lys Ser Thr Ser Tyr Asp Val His Pro Asn Asn Phe Pro Val

```

	85		90		95										
Gly	Lys	Ala	Val	Gly	Thr	Val	Phe	Ala	Lys	Ser	Gln	Leu	Val	Ile	Arg
	100		105		110										
His	Thr	Ala	Glu	Asp	Thr	Trp	Glu	Leu	Leu	Ile	Arg	Arg	Ser	Phe	Ser
	115		120		125										
Asp	Tyr	Trp	Trp	Leu	Trp	Leu	Gln	Asp	Ala	Ala	Ala				
	130		135		140										

&lt;210&gt; 1407

&lt;211&gt; 1006

&lt;212&gt; DNA

&lt;213&gt; Homo sapiens

&lt;400&gt; 1407

```

nncggccggg agaagctgga gctcgtcctg tctaacctgc aggcagacgt cctggagttg
60
ctgctggagt ttgtctacac gggctccctg gtcctcgact cggccaacgc caagacactg
120
ctggaggcgg ccagcaagtt ccagttccac acctcttgca aagtctcggt gtcctttctt
180
gagaagcagc tgacggccag caactgcctg ggcgttgctg ccatggccga ggccatcgag
240
tgcagcgagc tctaccacat ngccaaggcc ttgcgctgac agatcttccc cgagggtggc
300
gcccaggagg agatcctcag catctccaag gacgacttca tcgcctacgt ctccaacgac
360
agcctcaaca ccaaggctga ggagctgggt tacgagacag tcatcaagtg gatcaagaag
420
gacccccgca cgcgcacaca gtacgaggct gagctcctgg ccgtggtccg cctccccctc
480
atccacccca gctacctgct caatgtgggt gacaatgaag agctgatcaa gtcctcagaa
540
gcctgcccgg acctgggtgaa cgaggccaaa cgctaccata tgctgcccca cgccccgcag
600
gagatgcaga cgcgccgaac ccggccgcgc ctctctgcag gtgtggctga ggtcatcgct
660
ttggttgggg gccgtcagat ggtggggatg acccagcgct cgctgggtgc cgctacctgc
720
tggaacccgc agaacaacaa gtggtacccc ttggcctcgg tgcccttttt agggccggga
780
ttcttcagtg tagtgagtgc aggggccaac atctacctct caggtgggat ggaatcaggg
840
gtgccgctgg ctgatgtctg gtgctacatg tccctgcttg ataactggaa cctcgtctcc
900
agaatgccag tcccccgctg tcggccccat agcctcgtct acgatgggaa gatttacacc
960
ctcgggggac ttggcgtggc aggcaacgtg gaccacgtgg agagga
1006

```

&lt;210&gt; 1408

&lt;211&gt; 335

&lt;212&gt; PRT

&lt;213&gt; Homo sapiens

&lt;400&gt; 1408

```

Xaa Gly Arg Glu Lys Leu Glu Leu Val Leu Ser Asn Leu Gln Ala Asp
 1           5           10           15
Val Leu Glu Leu Leu Leu Glu Phe Val Tyr Thr Gly Ser Leu Val Ile
           20           25           30
Asp Ser Ala Asn Ala Lys Thr Leu Leu Glu Ala Ala Ser Lys Phe Gln
           35           40           45
Phe His Thr Phe Cys Lys Val Cys Val Ser Phe Leu Glu Lys Gln Leu
           50           55           60
Thr Ala Ser Asn Cys Leu Gly Val Ala Ala Met Ala Glu Ala Met Gln
           65           70           75           80
Cys Ser Glu Leu Tyr His Xaa Ala Lys Ala Phe Ala Leu Gln Ile Phe
           85           90           95
Pro Glu Val Ala Ala Gln Glu Glu Ile Leu Ser Ile Ser Lys Asp Asp
           100          105          110
Phe Ile Ala Tyr Val Ser Asn Asp Ser Leu Asn Thr Lys Ala Glu Glu
           115          120          125
Leu Val Tyr Glu Thr Val Ile Lys Trp Ile Lys Lys Asp Pro Ala Thr
           130          135          140
Arg Thr Gln Tyr Ala Ala Glu Leu Leu Ala Val Val Arg Leu Pro Phe
           145          150          155          160
Ile His Pro Ser Tyr Leu Leu Asn Val Val Asp Asn Glu Glu Leu Ile
           165          170          175
Lys Ser Ser Glu Ala Cys Arg Asp Leu Val Asn Glu Ala Lys Arg Tyr
           180          185          190
His Met Leu Pro His Ala Arg Gln Glu Met Gln Thr Pro Arg Thr Arg
           195          200          205
Pro Arg Leu Ser Ala Gly Val Ala Glu Val Ile Val Leu Val Gly Gly
           210          215          220
Arg Gln Met Val Gly Met Thr Gln Arg Ser Leu Val Ala Val Thr Cys
           225          230          235          240
Trp Asn Pro Gln Asn Asn Lys Trp Tyr Pro Leu Ala Ser Val Pro Phe
           245          250          255
Leu Gly Pro Gly Phe Phe Ser Val Val Ser Ala Gly Ala Asn Ile Tyr
           260          265          270
Leu Ser Gly Gly Met Glu Ser Gly Val Pro Leu Ala Asp Val Trp Cys
           275          280          285
Tyr Met Ser Leu Leu Asp Asn Trp Asn Leu Val Ser Arg Met Pro Val
           290          295          300
Pro Arg Cys Arg Pro His Ser Leu Val Tyr Asp Gly Lys Ile Tyr Thr
           305          310          315          320
Leu Gly Gly Leu Gly Val Ala Gly Asn Val Asp His Val Glu Arg
           325          330          335

```

&lt;210&gt; 1409

&lt;211&gt; 279

&lt;212&gt; DNA

&lt;213&gt; Homo sapiens

&lt;400&gt; 1409

```

nnnatgaagt tcttggtttt ttcagaaaaa cgcgcttttt gctatgctgg ccgccccgcg
60
gcacgagata gcaccatgca actgatcgat atcggcgtca acctgaccaa cagcagtttc
120

```

cacgaccaac aggccgcaat cgctcgagcgc gcgctggagg ccggcgcttac gcaaattgctg  
 180  
 ctgacaggca ccagccctggc ggtcagcgaa caagccctgg aactgtgcc tcaactggat  
 240  
 gcaagcgggc cccacctgtt cgccacggcc ggcgtgcac  
 279

<210> 1410  
 <211> 93  
 <212> PRT  
 <213> Homo sapiens

<400> 1410  
 Xaa Met Lys Phe Leu Val Phe Ser Glu Lys Arg Ala Phe Cys Tyr Ala  
 1 5 10 15  
 Gly Arg Pro Ala Ala Arg Asp Ser Thr Met Gln Leu Ile Asp Ile Gly  
 20 25 30  
 Val Asn Leu Thr Asn Ser Ser Phe His Asp Gln Gln Ala Ala Ile Val  
 35 40 45  
 Glu Arg Ala Leu Glu Ala Gly Val Thr Gln Met Leu Leu Thr Gly Thr  
 50 55 60  
 Ser Leu Ala Val Ser Glu Gln Ala Leu Glu Leu Cys His Gln Leu Asp  
 65 70 75 80  
 Ala Ser Gly Ala His Leu Phe Ala Thr Ala Gly Val His  
 85 90

<210> 1411  
 <211> 321  
 <212> DNA  
 <213> Homo sapiens

<400> 1411  
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 60  
 ttctgtgaat ggtagaaat ggaagagcct agctgggctc atgtcgatta ccctaaaatt  
 120  
 gatttttcaat ctattttctta ctattccgcg ccaaaaagca tgaaggataa gcctaagtcg  
 180  
 ttagacgaag tcgatcctga attgttacgt acctatgaaa aactgggcat tcctctcata  
 240  
 gaacagcaaa tgcttgctgg tatcgccgta gatgctgtct ttgactcagt gtctgtcgctt  
 300  
 actacttttc gtcaaaagct t  
 321

<210> 1412  
 <211> 107  
 <212> PRT  
 <213> Homo sapiens

<400> 1412  
 Xaa Arg Ile Ser Gly Met Lys Asn Glu Pro Glu Trp Met Leu Glu Trp  
 1 5 10 15  
 Arg Leu Ser Ala Phe Arg Glu Trp Leu Glu Met Glu Glu Pro Ser Trp

```

                20                25                30
Ala His Val Asp Tyr Pro Lys Ile Asp Phe Gln Ser Ile Ser Tyr Tyr
      35                40                45
Ser Ala Pro Lys Ser Met Lys Asp Lys Pro Lys Ser Leu Asp Glu Val
      50                55                60
Asp Pro Glu Leu Leu Arg Thr Tyr Glu Lys Leu Gly Ile Pro Leu Ile
      65                70                75                80
Glu Gln Gln Met Leu Ala Gly Ile Ala Val Asp Ala Val Phe Asp Ser
      85                90                95
Val Ser Val Val Thr Thr Phe Arg Gln Lys Leu
      100                105

```

<210> 1413  
 <211> 385  
 <212> DNA  
 <213> Homo sapiens

```

<400> 1413
atgacccatg acgtcagcga agccgtggcg attgccgacc gggatgacct gatcgaagac
60
ggcgaaatcg gcctcgacct gatcatcgac ctgccacgtc cgcgtgcccc tgggtcacac
120
cgccctggcgcg cggttgaagc cgaagtgata aaccgtgtgc tgtcataacc cngcacgaag
180
ccggaacccg aacatgttaa accgctgcct acgaaattgc gttgggtcga ataaactcata
240
gaggaacacc atcatgacta taaaagccat caacgtgcgt aaccagttaa aaggcaccat
300
caaggaaatc gtagtcggca acgtgctctc ggaaatcgac gtgcagaccg cctccgggat
360
cgtaacttct gtgatcacta cgcgt
385

```

<210> 1414  
 <211> 55  
 <212> PRT  
 <213> Homo sapiens

```

<400> 1414
Met Thr His Asp Val Ser Glu Ala Val Ala Ile Ala Asp Arg Val Ile
1      5      10      15
Leu Ile Glu Asp Gly Glu Ile Gly Leu Asp Leu Ile Ile Asp Leu Pro
      20      25      30
Arg Pro Arg Ala Arg Gly Ser His Arg Leu Ala Ala Leu Glu Ala Glu
      35      40      45
Val Ile Asn Arg Val Leu Ser
50      55

```

<210> 1415  
 <211> 420  
 <212> DNA  
 <213> Homo sapiens

<400> 1415

acgcgtgcag gcaaacatta atatgagtta acaccacaca ggatgagact gttttgacct  
 60  
 gtaactgtcc ttgtcatctg tcttgagat ttagaagagg aatcagaaa ctgggacaaa  
 120  
 tctgaggctg aagaggagga gaaagccctt gtgttgccag agagtacaga agggcgagg  
 180  
 ctgaccagg gcccggcaga gtctctctct ctctcaggct gtgggagctg gcagccccgg  
 240  
 aagctgccag tcttcaagtc cctccggcac atgaggcagg tcttgggtgc ccttctcttc  
 300  
 cgcattctgg cctggcacgt tctcatgggg aaccagggtga tctggaaaa cagagacgtg  
 360  
 gacctcgtec agtcagcttt tgaagtactt cgggtgagaa catcttttcc ttaggtgtgc  
 420

<210> 1416

<211> 123

<212> PRT

<213> Homo sapiens

<400> 1416

Met	Arg	Leu	Phe	Val	Pro	Val	Thr	Val	Leu	Val	Ile	Cys	Leu	Ala	Asp
1			5					10						15	
Leu	Glu	Glu	Glu	Ser	Glu	Ser	Trp	Asp	Asn	Ser	Glu	Ala	Glu	Glu	Glu
			20					25					30		
Glu	Lys	Ala	Pro	Val	Leu	Pro	Glu	Ser	Thr	Glu	Gly	Arg	Glu	Leu	Thr
		35					40					45			
Gln	Gly	Pro	Ala	Glu	Ser	Ser	Ser	Leu	Ser	Gly	Cys	Gly	Ser	Trp	Gln
		50				55					60				
Pro	Arg	Lys	Leu	Pro	Val	Phe	Lys	Ser	Leu	Arg	His	Met	Arg	Gln	Val
				70						75				80	
Leu	Gly	Ala	Pro	Ser	Phe	Arg	Met	Leu	Ala	Trp	His	Val	Leu	Met	Gly
				85				90						95	
Asn	Gln	Val	Ile	Trp	Lys	Ser	Arg	Asp	Val	Asp	Leu	Val	Gln	Ser	Ala
			100					105					110		
Phe	Glu	Val	Leu	Arg	Val	Arg	Thr	Ser	Phe	Pro					
		115					120								

<210> 1417

<211> 5058

<212> DNA

<213> Homo sapiens

<400> 1417

nngtacagcc ccaaggctgc tccctctggg cctttcttcc cccattcttc ccagcagccc  
 60  
 aaagctctgg tgggacaggg gcagccccctg gggagggagg agaggaccca ggaacccggc  
 120  
 taggaggggt gccaccatcatt ttcagtggt acctgttccc attcccccat gtctctctcc  
 180  
 atccctcccc ccaactcagct caggctgatg agaagcagag caacgggtgt atcggtgttt  
 240  
 tctttctctg tggggtagtg ggggtggggct gaggagagaa aagggtgatt agcgtggggc  
 300

ccgccectct ttgtctctct tcccagggtc cctggccctc tcggagaaac gcacttggtt  
360  
cgggccagcc gcctgagggg acgggctcac gtctgtctct cacactgcag ctgctggggc  
420  
gtggagcttc cccagggagc cagggggact ttgtccgcag ccatgaaggg ggcacgctgg  
480  
aggagggtcc cctgggtgtc cctgagctgc ctgtgtctct gcctccttcc gcatgtggtc  
540  
ccaggaaaca cagaggacac attaataact ggaagtaaaa ctctgcccc agtcacctca  
600  
acaggctcaa caacagcgac actagaggga caatcaactg cagctttctc aaggacctct  
660  
aatcaggaca tatcagcttc atctcagaac caccagacta agagcacgga gaccaccagg  
720  
aaagctcaaa ccgacaccct caccgagatg atgacatcaa ctcttttttc ttccccaagt  
780  
gtacacaatg tgatggagac tgttacgcag gagacagctc ctccagatga aatgaccaca  
840  
tcatttccct ccagtgtcac caacacactc atgatgacat caaagactat aacaatgaca  
900  
acctccacag actccactct tggaaacaca gaagagacat caacagcagg aactgaaagt  
960  
tctaccccag tgacctcagc agtctcaata acagctggac aggaaggaca atcacgaaaa  
1020  
acttctctgga ggacctctat ccaagacaca tcagcttctt ctccagaacca ctggactcgg  
1080  
agcacgcaga ccaccaggga atctcaaacc agcaccctaa cacacagaac cacttcaact  
1140  
ccttctttct ctccaagtgt acacaatgtg acagggactg tttctcagaa gacatctct  
1200  
tcaggtgaaa cagctacctc atccctctgt agtgtcacia acacatccat gatgacatca  
1260  
gagaagataa cagtgacaac ctccacaggc tccactcttg gaaacccagg ggagacatca  
1320  
tcagtacctg ttaactggaag tcttatgcca gtcacctcag cagccttagt aacagttgat  
1380  
ccagaaggac aatcaccagc aactttctca aggacttcta ctcaggacac aacagctttt  
1440  
tctaagaacc accagactca gagcgtggag accaccagag tatctcaaat caacacctc  
1500  
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4860  
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&lt;210&gt; 1418

&lt;211&gt; 1532

&lt;212&gt; PRT

&lt;213&gt; Homo sapiens

&lt;400&gt; 1418

```

Met Lys Gly Ala Arg Trp Arg Arg Val Pro Trp Val Ser Leu Ser Cys
 1           5           10           15
Leu Cys Leu Cys Leu Leu Pro His Val Val Pro Gly Thr Thr Glu Asp
          20           25           30
Thr Leu Ile Thr Gly Ser Lys Thr Pro Ala Pro Val Thr Ser Thr Gly
 35           40           45
Ser Thr Thr Thr Ala Thr Leu Glu Gly Gln Ser Thr Ala Ala Ser Ser Arg
 50           55           60
Thr Ser Asn Gln Asp Ile Ser Ala Ser Ser Gln Asn His Gln Thr Lys
 65           70           75           80
Ser Thr Glu Thr Thr Ser Lys Ala Gln Thr Asp Thr Leu Thr Gln Met
          85           90           95
Met Thr Ser Thr Leu Phe Ser Ser Pro Ser Val His Asn Val Met Glu
 100          105          110
Thr Val Thr Gln Glu Thr Ala Pro Pro Asp Glu Met Thr Thr Ser Phe
 115          120          125
Pro Ser Ser Val Thr Asn Thr Leu Met Met Thr Ser Lys Thr Ile Thr
 130          135          140
Met Thr Thr Ser Thr Asp Ser Thr Leu Gly Asn Thr Glu Glu Thr Ser
 145          150          155          160
Thr Ala Gly Thr Glu Ser Ser Thr Pro Val Thr Ser Ala Val Ser Ile
          165          170          175
Thr Ala Gly Gln Glu Gly Gln Ser Arg Lys Thr Ser Trp Arg Thr Ser
 180          185          190
Ile Gln Asp Thr Ser Ala Ser Ser Gln Asn His Trp Thr Arg Ser Thr
 195          200          205
Gln Thr Thr Arg Glu Ser Gln Thr Ser Thr Leu Thr His Arg Thr Thr
 210          215          220
Ser Thr Pro Ser Phe Ser Pro Ser Val His Asn Val Thr Gly Thr Val
 225          230          235          240
Ser Gln Lys Thr Ser Pro Ser Gly Glu Thr Ala Thr Ser Ser Leu Cys
          245          250          255
Ser Val Thr Asn Thr Ser Met Met Thr Ser Glu Lys Ile Thr Val Thr
 260          265          270
Thr Ser Thr Gly Ser Thr Leu Gly Asn Pro Gly Glu Thr Ser Ser Val
 275          280          285
Pro Val Thr Gly Ser Leu Met Pro Val Thr Ser Ala Ala Leu Val Thr
 290          295          300
Val Asp Pro Glu Gly Gln Ser Pro Ala Thr Phe Ser Arg Thr Ser Thr
 305          310          315          320
Gln Asp Thr Thr Ala Phe Ser Lys Asn His Gln Thr Gln Ser val Glu
          325          330          335
Thr Thr Arg Val Ser Gln Ile Asn Thr Leu Asn Thr Leu Thr Pro Val
 340          345          350
Thr Thr Ser Thr val Leu Ser Ser Pro Ser Gly Phe Asn Pro Ser Gly
 355          360          365
Thr Val Ser Gln Glu Thr Phe Pro Ser Gly Glu Thr Thr Ile Ser Ser
 370          375          380
Pro Ser Ser Val Ser Asn Thr Phe Leu Val Thr Ser Lys Val Phe Arg

```

```

385          390          395          400
Met Pro Ile Ser Arg Asp Ser Thr Leu Gly Asn Thr Glu Glu Thr Ser
          405          410          415
Leu Ser Val Ser Gly Thr Ile Ser Ala Ile Thr Ser Lys Val Ser Thr
          420          425          430
Ile Trp Trp Ser Asp Thr Leu Ser Thr Ala Leu Ser Pro Ser Ser Leu
          435          440          445
Pro Pro Lys Ile Ser Thr Ala Phe His Thr Gln Gln Ser Glu Gly Ala
          450          455          460
Glu Thr Thr Gly Arg Pro His Glu Arg Ser Ser Phe Ser Pro Gly Val
          465          470          475          480
Ser Gln Glu Ile Phe Thr Leu His Glu Thr Thr Trp Pro Ser Ser
          485          490          495
Phe Ser Ser Lys Gly His Thr Thr Trp Ser Gln Thr Glu Leu Pro Ser
          500          505          510
Thr Ser Thr Gly Ala Ala Thr Arg Leu Val Thr Gly Asn Pro Ser Thr
          515          520          525
Gly Ala Ala Gly Thr Ile Pro Arg Val Pro Ser Lys Val Ser Ala Ile
          530          535          540
Gly Glu Pro Gly Glu Pro Thr Thr Tyr Ser Ser His Ser Thr Thr Leu
          545          550          555          560
Pro Lys Thr Thr Gly Ala Gly Ala Gln Thr Gln Trp Thr Gln Glu Thr
          565          570          575
Gly Thr Thr Gly Glu Ala Leu Leu Ser Ser Pro Ser Tyr Ser Val Thr
          580          585          590
Gln Met Ile Lys Thr Ala Thr Ser Pro Ser Ser Pro Met Leu Asp
          595          600          605
Arg His Thr Ser Gln Gln Ile Thr Thr Ala Pro Ser Thr Asn His Ser
          610          615          620
Thr Ile His Ser Thr Ser Thr Ser Pro Gln Glu Ser Pro Ala Val Ser
          625          630          635          640
Gln Arg Gly His Thr Gln Ala Pro Gln Thr Thr Gln Glu Ser Gln Thr
          645          650          655
Thr Arg Ser Val Ser Pro Met Thr Asp Thr Lys Thr Val Thr Thr Pro
          660          665          670
Gly Ser Ser Phe Thr Ala Ser Gly His Ser Pro Ser Glu Ile Val Pro
          675          680          685
Gln Asp Ala Pro Thr Ile Ser Ala Ala Thr Thr Phe Ala Pro Ala Pro
          690          695          700
Thr Gly Asp Gly His Thr Thr Gln Ala Pro Thr Thr Ala Leu Gln Ala
          705          710          715          720
Thr Pro Ser Ser His Asp Ala Thr Leu Gly Pro Ser Gly Gly Thr Ser
          725          730          735
Leu Ser Lys Thr Gly Ala Leu Thr Leu Ala Asn Ser Val Val Ser Thr
          740          745          750
Pro Gly Gly Pro Glu Gly Gln Trp Thr Ser Ala Ser Ala Ser Thr Ser
          755          760          765
Pro Asp Thr Ala Ala Ala Met Thr His Thr His Gln Ala Glu Ser Thr
          770          775          780
Glu Ala Ser Gly Gln Thr Gln Thr Ser Glu Pro Ala Ser Ser Gly Ser
          785          790          795          800
Arg Thr Thr Ser Ala Gly Thr Ala Thr Pro Ser Ser Ser Gly Ala Ser
          805          810          815
Gly Thr Thr Pro Ser Gly Ser Glu Gly Ile Ser Thr Ser Gly Glu Thr

```

[illegible]

```

1250          1255          1260
Gly His Ala Thr Pro Leu His Val Thr Asp Ala Ser Ser Val Ser Thr
1265          1270          1275          1280
Gly Asp Thr Thr Pro Leu Pro Val Thr Ser Pro Ser Ser Ala Ser Thr
1285          1290          1295
Gly Asp Thr Thr Pro Leu Pro Val Thr Asp Thr Ser Ser Val Ser Thr
1300          1305          1310
Gly Asp Thr Thr Pro Leu Leu Val Thr Asp Thr Ser Ser Val Ser Thr
1315          1320          1325
Ser His Ala Thr Ser Leu Pro Val Thr Asp Thr Ser Ser Val Ser Thr
1330          1335          1340
Ser His Ala Thr Ser Leu Pro Val Thr Asp Pro Ser Ser Ala Ser Thr
1345          1350          1355          1360
Gly Asp Thr Thr Pro Leu Pro Val Thr Asp Thr Ser Ser Val Ser Thr
1365          1370          1375
Gly His Ala Thr Ser Leu Pro Val Thr Asp Thr Ser Ser Ala Ser Thr
1380          1385          1390
Gly Asp Thr Thr Ser Leu Pro Val Thr Asp Thr Ser Ser Ala Ser Thr
1395          1400          1405
Gly His Ala Thr Pro Leu Pro Val Thr Asp Thr Ser Ser Ala Ser Thr
1410          1415          1420
Gly His Ala Thr Pro Leu Leu Val Thr Asp Thr Ser Ser Ala Ser Thr
1425          1430          1435          1440
Gly His Thr Thr Pro Leu His Val Thr Ser Pro Ser Ser Ala Ser Thr
1445          1450          1455
Gly His Ala Thr Pro Leu Pro Val Thr Ser Pro Ser Ser Ala Ser Thr
1460          1465          1470
Ser His Ala Thr Ser Leu Pro Val Thr Asp Thr Ser Ser Ala Ser Thr
1475          1480          1485
Gly His Ala Thr Pro Leu Leu Val Thr Asp Thr Ser Ser Ala Ser Thr
1490          1495          1500
Gly His Ala Thr Pro Leu Leu Val Thr Asp Thr Ser Ser Ala Ser Thr
1505          1510          1515          1520
Gly His Ala Thr Pro Leu Pro Val Thr Asp Thr Ser
1525          1530

```

<210> 1419

<211> 309

<212> DNA

<213> Homo sapiens

<400> 1419

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aaggctatgg gaattcaaaa gtatgtgttc tattccatcc acaactgtga caagcagcct
60

```

```

gaggttccct tgatggaaat caagtattgt actggtaaat ttattcagga cagtggctgtg
120

```

```

gattatatca tcattccgttt gtgtggtttc atgcagggtc ttattgggca atatgtgttt
180

```

```

cctatactag aagagaagtc cgtctgggga actgatgctc caactcggat tgcttacatg
240

```

```

gataccccagg acgtagctcg actaacgttt atagctatgc ggaatgagaa ggccaacaag
300

```

aaactcatg

309

<210> 1420  
 <211> 103  
 <212> PRT  
 <213> Homo sapiens

<400> 1420  
 Lys Ala Met Gly Ile Gln Lys Tyr Val Phe Tyr Ser Ile His Asn Cys  
 1 5 10 15  
 Asp Lys Gln Pro Glu Val Pro Leu Met Glu Ile Lys Tyr Cys Thr Gly  
 20 25 30  
 Lys Phe Ile Gln Asp Ser Gly Leu Asp Tyr Ile Ile Arg Leu Cys  
 35 40 45  
 Gly Phe Met Gln Gly Leu Ile Gly Gln Tyr Ala Val Pro Ile Leu Glu  
 50 55 60  
 Glu Lys Ser Val Trp Gly Thr Asp Ala Pro Thr Arg Ile Ala Tyr Met  
 65 70 75 80  
 Asp Thr Gln Asp Val Ala Arg Leu Thr Phe Ile Ala Met Arg Asn Glu  
 85 90 95  
 Lys Ala Asn Lys Lys Leu Met  
 100

<210> 1421  
 <211> 385  
 <212> DNA  
 <213> Homo sapiens

<400> 1421  
 ccattggcggc atgggtggag agagaagctg gggagaagaa atgatgcaga gatctcgcca  
 60  
 ggccagggag ctgggctggg cagccaggag tagagaaaca acgctcccag aggaggggag  
 120  
 gatgttagag caaagccgag cccagctgct ggcgaaatga tctgtgatgc ccattgagcag  
 180  
 ccaggatttc agctccgctc tacttcttga ctgctgcaga actcagcacc agctccagtg  
 240  
 ccttcagagc cctgattttt cacaaccga ctcctccaag cctccctctg gggcgggata  
 300  
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 360  
 cctgacatac tttaacacat tacag  
 385

<210> 1422  
 <211> 125  
 <212> PRT  
 <213> Homo sapiens

<400> 1422  
 Met Gly Gly Glu Arg Ser Trp Gly Glu Glu Met Met Gln Arg Ser Arg  
 1 5 10 15  
 Gln Ala Arg Glu Leu Gly Trp Ala Ala Arg Ser Arg Glu Thr Thr Leu  
 20 25 30  
 Pro Glu Glu Gly Arg Met Leu Glu Gln Ser Arg Ala Gln Leu Leu Ala

```

          35              40              45
Asn Ala Ser Val Met Pro Met Ser Ser Gln Asp Phe Ser Ser Ala Leu
 50              55              60
Leu Leu Asp Cys Cys Arg Thr Gln His Gln Leu Gln Cys Pro Gln Ser
 65              70              75              80
Pro Asp Phe Ser Gln Thr Asp Ser Ser Lys Pro Pro Leu Trp Ala Gly
          85              90              95
Tyr Thr Ser Gln Ser Arg Leu Val Thr Ser Leu Leu Ser Pro Pro Gly
          100              105              110
His Gly Gln Thr Phe Leu Thr Tyr Phe Thr Thr Leu Gln
          115              120              125

```

&lt;210&gt; 1423

&lt;211&gt; 336

&lt;212&gt; DNA

&lt;213&gt; Homo sapiens

&lt;400&gt; 1423

```

mntattcttc aatccttcca caatgtgcaa caaatggcga ttgactggct cactcgaat
 60
ctctattttg tggaccatgt cggtagccgg atctttgttt gtaattccaa cggttctgta
 120
tgtgtcacc c tgattgatct ggagcttcac aatcctaaag caatagcagt agatccaata
 180
gcaggaaaac ttttctttac tgactacggg aatgtcgcca aagtggagag atgtgacatg
 240
gatgggatga accgaacaag gataattgat tcaaagacag agcagccagc tgcactggga
 300
ctagacctag tcaacaaatt ggtttactgg gtagat
 336

```

&lt;210&gt; 1424

&lt;211&gt; 112

&lt;212&gt; PRT

&lt;213&gt; Homo sapiens

&lt;400&gt; 1424

```

Xaa Ile Leu Gln Ser Phe His Asn Val Gln Gln Met Ala Ile Asp Trp
 1              5              10              15
Leu Thr Arg Asn Leu Tyr Phe Val Asp His Val Gly Asp Arg Ile Phe
          20              25              30
Val Cys Asn Ser Asn Gly Ser Val Cys Val Thr Leu Ile Asp Leu Glu
          35              40              45
Leu His Asn Pro Lys Ala Ile Ala Val Asp Pro Ile Ala Gly Lys Leu
          50              55              60
Phe Phe Thr Asp Tyr Gly Asn Val Ala Lys Val Glu Arg Cys Asp Met
 65              70              75              80
Asp Gly Met Asn Arg Thr Arg Ile Ile Asp Ser Lys Thr Glu Gln Pro
          85              90              95
Ala Ala Leu Ala Leu Asp Leu Val Asn Lys Leu Val Tyr Trp Val Asp
          100              105              110

```

&lt;210&gt; 1425

&lt;211&gt; 672

&lt;212&gt; DNA

&lt;213&gt; Homo sapiens

&lt;400&gt; 1425

accggtgttt tcgatcacct gggcgggttg agtgactatc gcagtcagat cgccccgatg  
 60  
 gcccgcatg tcgaagacct ggccttggtg ctacagggtca ttgccggtga agatgggggtc  
 120  
 gatgccgggg tgattccgat gccgctgcgc cgtatgcaaa ctcaaagcgt gaagggggttg  
 180  
 cgagtcgcct ggtacagcga tgggtggcatt gagcccggtg acgcgctcac gcacaccaca  
 240  
 ttgcaggcgg tcgccgatct attggacgct gaaggcgcct tgatccgccc ggccttcccc  
 300  
 tcggcggtta gcaatgcccc tgacattacc gaacgctatt gggcaatgag tcaaagctcc  
 360  
 ggcgcgcagt cgatccagct gttttcagat tgggatcagt tccgtacagc catgctgggg  
 420  
 ttcatggcgc actacgacat tatcctgtgc cctgtcgatg ccgcgcgggc gacccaactg  
 480  
 ggagagagac ggccagggct gttcagttcc ccccttccta atggcttggc gggttggcct  
 540  
 tgtgtgggtg tccggggccg aacggatagc gcggggttgc cggttggcgt gcagattgtc  
 600  
 gcgcgacctt ggcacgagcc tgcgcggtg gcggcgacag cgccattga gcgcgcgctg  
 660  
 ccgttcacgc gt  
 672

&lt;210&gt; 1426

&lt;211&gt; 224

&lt;212&gt; PRT

&lt;213&gt; Homo sapiens

&lt;400&gt; 1426

Thr Gly Val Phe Asp His Leu Gly Gly Leu Ser Asp Tyr Arg Ser Gln  
 1 5 10 15  
 Ile Gly Pro Met Ala Arg His Val Glu Asp Leu Ala Leu Ala Leu Gln  
 20 25 30  
 Val Ile Ala Gly Glu Asp Gly Val Asp Ala Gly Val Ile Pro Met Pro  
 35 40 45  
 Leu Arg Arg Met Gln Thr Gln Thr Leu Lys Gly Leu Arg Val Ala Trp  
 50 55 60  
 Tyr Ser Asp Gly Gly Ile Glu Pro Val Asp Ala Leu Thr His Thr Thr  
 65 70 75 80  
 Leu Gln Ala Val Ala Asp Leu Leu Asp Ala Glu Gly Ala Leu Ile Arg  
 85 90 95  
 Pro Ala Phe Pro Ser Ala Leu Ser Asn Ala Arg Asp Ile Thr Glu Arg  
 100 105 110  
 Tyr Trp Ala Met Ser Gln Ser Ser Gly Ala Gln Ser Ile Gln Leu Phe  
 115 120 125  
 Ser Asp Trp Asp Gln Phe Arg Thr Ala Met Leu Gly Phe Met Ala Asp  
 130 135 140  
 Tyr Asp Ile Ile Leu Cys Pro Val Asp Ala Ala Pro Ala Thr Gln Leu

```

145          150          155          160
Gly Glu Thr Arg Pro Gly Leu Phe Ser Ser Pro Leu Pro Asn Gly Leu
165          170          175
Ala Gly Trp Pro Cys Val Val Val Arg Ala Gly Thr Asp Ser Ala Gly
180          185          190
Leu Pro Val Gly Val Gln Ile Val Ala Arg Pro Trp His Glu Pro Val
195          200          205
Ala Leu Ala Ala Ala Ala Ile Glu Arg Ala Leu Pro Phe Thr Arg
210          215          220

```

```

<210> 1427
<211> 270
<212> DNA
<213> Homo sapiens

```

```

<400> 1427
atggcttgct atctgaagca ggtggctgcc accgtctgca taaatgggccc cagcgcgagtc
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tttgatgttc cactaagata cggggatctg gtggtgacac ccatgcgact ggcttcggaa
120
ttgatgcaag tccatccctc aggggctgta cgcttccgtc actgttcagt tccccagaat
180
aaactcaact cacaaaagat atttccgggt gaaaaggccc aagggaagat cctcttcatt
240
gcaggagaga atgacgaaa gcttggtctagc
270

```

```

<210> 1428
<211> 90
<212> PRT
<213> Homo sapiens

```

```

<400> 1428
Met Ala Cys Tyr Leu Lys Gln Val Ala Ala Thr Val Cys Ile Asn Gly
1          5          10          15
Pro Ser Ala Val Phe Asp Val Pro Leu Arg Tyr Gly Asp Leu Val Val
20          25          30
Thr Pro Met Arg Leu Ala Ser Glu Leu Met Gln Val His Pro Ser Gly
35          40          45
Ala Val Arg Phe Arg His Cys Ser Val Pro Gln Asn Lys Leu Asn Ser
50          55          60
Gln Lys Ile Leu Pro Val Glu Lys Ala Gln Gly Lys Ile Leu Phe Ile
65          70          75          80
Ala Gly Glu Asn Asp Glu Ser Leu Ala Ser
85          90

```

```

<210> 1429
<211> 384
<212> DNA
<213> Homo sapiens

```

```

<400> 1429
ncctagggga ttatcgacat aaacgcgact gcgtaagggtt ggtgactcat cccccagcga
60

```

catgaggcaa acgccatgac atccgagaat gcaccgccgc gaggaagat catcatgatg  
 120  
 gcggtgatcg ccggcgcggt ggtaaccaac atttactgca cccagccggt gctgccgttg  
 180  
 atcgccctcg acatgggctg cgcagtgtcg acggtaacc tgggtggcagg cgcggccttg  
 240  
 ctgggggttg ccaccgggtt ggcgttttta ttgccatgg cgcaccgctt tgaccggcgc  
 300  
 aagctggtac tcgggcagat tgcgctggcg ttctgctttg ccttgccggc ggccttttgcg  
 360  
 ccgaggatct gggcggtgat cggc  
 384

<210> 1430

<211> 103

<212> PRT

<213> Homo sapiens

<400> 1430

Met	Thr	Ser	Glu	Asn	Ala	Pro	Pro	Arg	Gly	Lys	Ile	Ile	Met	Met	Ala
1			5					10					15		
Val	Ile	Ala	Gly	Ala	Val	Val	Thr	Asn	Ile	Tyr	Cys	Thr	Gln	Pro	Val
		20					25				30				
Leu	Pro	Leu	Ile	Ala	Ser	Asp	Met	Gly	Val	Ala	Val	Ser	Thr	Val	Asn
	35					40					45				
Leu	Val	Ala	Gly	Ala	Ala	Leu	Leu	Gly	Phe	Ala	Thr	Gly	Leu	Ala	Phe
	50				55				60						
Leu	Leu	Pro	Met	Gly	Asp	Arg	Phe	Asp	Arg	Arg	Lys	Leu	Val	Leu	Gly
65				70				75						80	
Gln	Ile	Ala	Leu	Ala	Phe	Cys	Phe	Ala	Leu	Ala	Ala	Ala	Phe	Ala	Pro
			85					90					95		
Arg	Ile	Trp	Ala	Leu	Ile	Gly									
						100									

<210> 1431

<211> 414

<212> DNA

<213> Homo sapiens

<400> 1431

aagcttcagg gcagggtgcc cctgaagtca agcctgattc tgcacatctc tgcacatgac  
 60  
 aaactggcga cacctgtgac ttgaccttc ccagggtccc tgcctctccg tccaggtagg  
 120  
 ctcagcctga gggagggtgct ggcaggagcc tcggaggcag gaggggctgg cgtgcttcac  
 180  
 tccttcagct tgccttgga gagctgtggg ctgcatcccc ctggctcctc gtccacagg  
 240  
 cagcccccgt gtgtgtctgg tcttgcaagg tggctgcagc ttctgggccc tgcttcacag  
 300  
 cccctctccc atgatcctcc agccttgga ggtgtaatat ttcccatgtg tgctgatctt  
 360  
 tagtttgctt cctctcctt ggtgttctt tctgctgttc cctcctctgt gcac  
 414

<210> 1432  
 <211> 106  
 <212> PRT  
 <213> Homo sapiens

<400> 1432  
 Met Gly Asn Tyr Tyr Thr Phe Gln Gly Trp Arg Ile Met Gly Arg Gly  
 1 5 10 15  
 Ala Gly Ser Arg Ala Gln Lys Leu Gln Pro Thr Cys Lys Thr Arg His  
 20 25 30  
 Thr Ala Gly Leu Pro Val Gly Arg Gly Ala Arg Gly Met Gln Pro Thr  
 35 40 45  
 Ala Leu Pro Arg Gln Ala Glu Gly Val Lys His Ala Ser Pro Ser Cys  
 50 55 60  
 Leu Arg Gly Ser Cys Gln His Leu Pro Gln Ala Glu Pro Thr Trp Ser  
 65 70 75 80  
 Gly Glu Gln Gly Pro Trp Glu Arg Gln Ser His Arg Cys Arg Gln Phe  
 85 90 95  
 Val Leu Tyr Lys Met Met Gln Asn Gln Ala  
 100 105

<210> 1433  
 <211> 294  
 <212> DNA  
 <213> Homo sapiens

<400> 1433  
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 60  
 gacgcggccg tcagcaatgc tgtggcttgc aagttccgct gtggtggaca aacgtgcatt  
 120  
 tcggccaacc gaatctacgt gcacgaacaa gtgcacgacg agtttgtctc taagtttggc  
 180  
 gagagagtca agaagcttcg cgtgggctac ggtctggacg aaaacatcaa cattggaccg  
 240  
 ctagtgaatg aggctagtca ggacaaagca gagtcacatg tccgtgcgat gcaa  
 294

<210> 1434  
 <211> 98  
 <212> PRT  
 <213> Homo sapiens

<400> 1434  
 Lys Phe Ser Met Glu Leu Gly Gly Asn Ala Pro Phe Ile Val Phe Asp  
 1 5 10 15  
 Asp Ala Asp Val Asp Ala Ala Val Ser Asn Ala Val Ala Cys Lys Phe  
 20 25 30  
 Arg Cys Gly Gly Gln Thr Cys Ile Ser Ala Asn Arg Ile Tyr Val His  
 35 40 45  
 Glu Gln Val His Asp Glu Phe Val Ser Lys Phe Gly Glu Arg Val Lys  
 50 55 60  
 Lys Leu Arg Val Gly Tyr Gly Leu Asp Glu Asn Ile Asn Ile Gly Pro

65                                      70                                      75                                      80  
 Leu Val Asn Glu Ala Ser Gln Asp Lys Ala Glu Ser His Val Arg Ala  
    85                                      90                                      95  
 Met Gln

<210> 1435  
 <211> 1772  
 <212> DNA  
 <213> Homo sapiens

<400> 1435  
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 cgtggcgatg ggacacctgg aaagtgtgtg gatgtctttg aatgtgttaa tgatacaaa  
 120  
 ccagcctcgc tatttaacaa tgtggaatat tatgatggag acatgtttcg aatggacaac  
 180  
 tgtcggttct gtcgatgcc aagggggcgt gccatctgct tcaactgccc gtgtggtgag  
 240  
 ataaactcgc agaggtaacta cgtgcccga ggagagtgtg gccactgtg tgaaatccag  
 300  
 tgtatccttt taataatccc gctggctgtg gccaatggcc tgatccttgc ccacggagac  
 360  
 cgggtggcgg aagacgactg cacattctgc cagtgcgtca acggtgaacg ccactgcgtt  
 420  
 gcgacctgtc gcggacagac ctgcacaaac cctgtgaaag tgccctggga gtgttgccct  
 480  
 gtgtgcgaag aaccaaccat catcacagtt gatccacctg catgtgggga gttatcaaac  
 540  
 tgcactctga caggaagga ctgcattaat ggtttcaaac gcgatcaca tggttgtcgg  
 600  
 acctgtcagt gcataaacac cgaggaacta tgttcagaac gtaaacaaag ctgcacctg  
 660  
 aactgtccct tcgggtttcct tactgatgcc caaaactgtg agatctgtga gtgccgccca  
 720  
 aggcccaaga agtgcagacc cataatctgt gacaagtatt gtccacttgg attgtgaa  
 780  
 aataagcacg gctgtgacat ctgtcgtgtg aagaaatgtc cagagctctc atgcagtaag  
 840  
 natctgcccc ttgggttttc agcaggacag tcacggcgtg cttatctgca agtgcagaga  
 900  
 ggcctctgct tcagctgggc caccatcct gtcgggcaact tgtctcaccg tggatggtca  
 960  
 tcatcataaa aatgaggaga gctggcacga tgggtgccgg gaatgctact gtctcaatgg  
 1020  
 acgggaaatg tgtgccctga tcacctgccc ggtgcctgcc tgtggcaacc ccaccattca  
 1080  
 ccttgacagc tgctgcccc catgtgcaga tgactttgtg gtgcagaagc cagagctcag  
 1140  
 tactcennct ccatttgcca cgcctctgga ggagaatact ttgtggaag agaaacgtgg  
 1200  
 aacattgact cctgtactca gtgcacctgc cacagcggac ggggtgctgtg tgagacagag  
 1260

gtgtgcccac cgctgctctg ccagaacccc tcacgcaccc aggattcctg ctgcccacag  
 1320  
 tgtacagatc aaccttttcg gccttccttg tcccgaata acagcgatcc taattactgc  
 1380  
 aaaaatgatg aaggggatat attcctggca gctgagtcct ggaagcctga cgtttgtacc  
 1440  
 agctgcatct gcattgatag cgtaattagc tgtttctctg agtcctgccc ttctgtatcc  
 1500  
 tgtgaaaaac ctgtcttgag aaaaggccag tgttgtccct actgcataga agacacaatt  
 1560  
 ccaaagaagg tgggtgtcca cttcagtggg aaggcctatg ccgacgagga gcggtgggac  
 1620  
 cttgacagct gcacccactg ctactgcctg cagggccaga ccttctgctc gaccgtcagc  
 1680  
 tgccccccctc tgccctgtgt tgagcccatc aacgtggaag gaagtgtgctg cccaatgtgt  
 1740  
 ccagaaatgt atgtcccagt cccctcacgc gt  
 1772

<210> 1436

<211> 322

<212> PRT

<213> Homo sapiens

<400> 1436

Xaa	Ser	Gly	Leu	Cys	Gly	Phe	Pro	Val	Cys	Glu	Val	Gly	Ser	Thr	Pro
1				5					10					15	
Arg	Ile	Val	Ser	Arg	Gly	Asp	Gly	Thr	Pro	Gly	Lys	Cys	Cys	Asp	Val
			20				25						30		
Phe	Glu	Cys	Val	Asn	Asp	Thr	Lys	Pro	Ala	Cys	Val	Phe	Asn	Asn	Val
		35					40					45			
Glu	Tyr	Tyr	Asp	Gly	Asp	Met	Phe	Arg	Met	Asp	Asn	Cys	Arg	Phe	Cys
	50				55					60					
Arg	Cys	Gln	Gly	Gly	Val	Ala	Ile	Cys	Phe	Thr	Ala	Gln	Cys	Gly	Glu
65					70				75					80	
Ile	Asn	Cys	Glu	Arg	Tyr	Tyr	Val	Pro	Glu	Gly	Glu	Cys	Cys	Pro	Val
			85					90					95		
Cys	Glu	Ile	Gln	Cys	Ile	Leu	Leu	Ile	Ile	Pro	Leu	Ala	Ala	Ala	Asn
			100					105					110		
Gly	Leu	Ile	Leu	Ala	His	Gly	Asp	Arg	Trp	Arg	Glu	Asp	Asp	Cys	Thr
			115				120				125				
Phe	Cys	Gln	Cys	Val	Asn	Gly	Glu	Arg	His	Cys	Val	Ala	Thr	Val	Cys
	130				135					140					
Gly	Gln	Thr	Cys	Thr	Asn	Pro	Val	Lys	Val	Pro	Gly	Glu	Cys	Cys	Pro
145					150				155						160
Val	Cys	Glu	Glu	Pro	Thr	Ile	Ile	Thr	Val	Asp	Pro	Pro	Ala	Cys	Gly
			165					170					175		
Glu	Leu	Ser	Asn	Cys	Thr	Leu	Thr	Gly	Lys	Asp	Cys	Ile	Asn	Gly	Phe
		180						185				190			
Lys	Arg	Asp	His	Asn	Gly	Cys	Arg	Thr	Cys	Gln	Cys	Ile	Asn	Thr	Glu
	195				200						205				
Glu	Leu	Cys	Ser	Glu	Arg	Lys	Gln	Gly	Cys	Thr	Leu	Asn	Cys	Pro	Phe
	210				215						220				
Gly	Phe	Leu	Thr	Asp	Ala	Gln	Asn	Cys	Glu	Ile	Cys	Glu	Cys	Arg	Pro

```

225                230                235                240
Arg Pro Lys Lys Cys Arg Pro Ile Ile Cys Asp Lys Tyr Cys Pro Leu
                245                250                255
Gly Leu Leu Lys Asn Lys His Gly Cys Asp Ile Cys Arg Cys Lys Lys
                260                265                270
Cys Pro Glu Leu Ser Cys Ser Lys Xaa Leu Pro Leu Gly Phe Pro Ala
                275                280                285
Gly Gln Ser Arg Leu Ser Tyr Leu Gln Val Gln Arg Gly Leu Cys Phe
                290                295                300
Ser Trp Ala Thr His Pro Val Gly His Leu Ser His Arg Gly Trp Ser
305                310                315                320
Ser Ser

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&lt;210&gt; 1437

&lt;211&gt; 372

&lt;212&gt; DNA

&lt;213&gt; Homo sapiens

&lt;400&gt; 1437

```

cggggaactgt gctcgccac catccggtga cgggtgtcgg gcagtggcaa ctcaacaccc
60
aggccatgac cggagccatc ccgagcagca ggtgcacggc ccggggccgtt gactcgtgga
120
cccgtaccct catgacctg atgcaacttc cacggtggtc caccgatcac atcgaccgct
180
cgggtccatgt cgatgctgag cagttcgacc ggttgcgcag cgagtctctg tcccgtagggc
240
acagttctgg ccctgccgca catgggggtcc tgggacttgg ccggggccctg ggtggccaga
300
cgcggtttct ccccgagttc cgtcgcgagg aatcttccga gggcacagtt cgagttgttc
360
tgccgcacgc gt
372

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&lt;210&gt; 1438

&lt;211&gt; 62

&lt;212&gt; PRT

&lt;213&gt; Homo sapiens

&lt;400&gt; 1438

```

Met Ser Met Leu Ser Ser Ser Thr Gly Cys Ala Ala Ser Ser Cys Pro
1          5          10          15
Val Gly Thr Val Leu Ala Leu Pro His Met Gly Ser Trp Asp Leu Ala
                20          25          30
Gly Ala Trp Val Ala Arg Arg Gly Phe Ser Pro Ser Ser Val Ala Glu
                35          40          45
Asn Leu Pro Arg Ala Gln Phe Glu Leu Phe Cys Arg Thr Arg
50          55          60

```

&lt;210&gt; 1439

&lt;211&gt; 471

&lt;212&gt; DNA

&lt;213&gt; Homo sapiens

<400> 1439  
 accgggttgc tttccacaag gagagctaaa atgccggttg ctaagcagca tacatgccgc  
 60  
 tgcttctttc cacaatgtag acttaaaaaa atcccggtaa acattttacc atatgattga  
 120  
 gtcagggtgtg gggagtcgca gtaaacattt taccatgtga ttgagtcagt ggtggggagt  
 180  
 cgcgaaata cacagggcag gcagttcgct atcacgatgt tctctctcat ttctgtcttt  
 240  
 ggtctgtctt cctgggtaat gtcacatgga gaccagggg atctgccatc agctgtgtgc  
 300  
 agtggggtta caagacgacg gggaaactta gagtcaggc agtcctcatc tttggcagat  
 360  
 tctgtatttg cacattcacc cactcactga aatgcatttg taaccccaaa atcaatacag  
 420  
 cgggttcaca gtcattttcc gacacgggca gaggggtgaa gatactgagt c  
 471

<210> 1440  
 <211> 101  
 <212> PRT  
 <213> Homo sapiens

<400> 1440  
 Met Gly Gly Glu Ser Arg Lys Tyr Thr Gly Gln Ala Val Arg Tyr His  
 1 5 10 15  
 Asp Val Leu Ser His Phe Cys Leu Trp Ser Val Phe Leu Gly Asn Val  
 20 25 30  
 Thr Trp Arg Pro Arg Gly Ser Ala Ile Ser Cys Val Gln Trp Val Asn  
 35 40 45  
 Lys Thr Thr Gly Asn Phe Arg Val Gln Ala Val Leu Ile Phe Gly Arg  
 50 55 60  
 Phe Cys Ile Cys Thr Phe Thr His Ser Leu Lys Cys Ile Cys Asn Pro  
 65 70 75 80  
 Lys Ile Asn Thr Ala Val Ser Gln Ser Phe Ser Asp Thr Gly Arg Gly  
 85 90 95  
 Val Lys Ile Leu Ser  
 100

<210> 1441  
 <211> 376  
 <212> DNA  
 <213> Homo sapiens

<400> 1441  
 nnnagtcgc ggggaccttc atggactctc tcgtgctccg tagetcacac tcaccgcacg  
 60  
 gcagctcaca ttcaccacac gggaaactcac tctcaccaca cggcagctca ctctctctgc  
 120  
 accgcagctc acactcaccg caggcagct cactctcacc gcacggcagc tcacactcac  
 180  
 cacacagcag ctactctta ccggacgggg aacctaaact taccggacgg gaagcctcac  
 240

tctcaccgca cggaaagctc acactcaccg caccgcagcc actctcaccg caccgcagct  
 300  
 cactctcacc gcaccgcagc tcactctcac cggacgggag ctactctca ccacacggca  
 360  
 cctcactctc acgctg  
 376

<210> 1442

<211> 125

<212> PRT

<213> Homo sapiens

<400> 1442

Xaa	Glu	Ser	Arg	Gly	Pro	Ser	Trp	Thr	Leu	Ser	Cys	Ser	Val	Ala	His
1				5				10					15		
Thr	His	Arg	Thr	Ala	Ala	His	Ile	His	His	Thr	Gly	Thr	His	Ser	His
			20				25						30		
His	Thr	Ala	Ala	His	Ser	Leu	Cys	Thr	Ala	Ala	His	Thr	His	Arg	Thr
			35				40					45			
Ala	Ala	His	Ser	His	Arg	Thr	Ala	Ala	His	Thr	His	His	Thr	Ala	Ala
			50				55					60			
His	Ser	Tyr	Arg	Thr	Gly	Asn	Leu	Asn	Leu	Pro	Asp	Gly	Lys	Pro	His
					70					75				80	
Ser	His	Arg	Thr	Glu	Ser	Ser	His	Ser	Pro	His	Arg	Ser	His	Ser	His
					85					90				95	
Arg	Thr	Ala	Ala	His	Ser	His	Arg	Thr	Ala	Ala	His	Ser	His	Arg	Thr
			100						105					110	
Gly	Ala	His	Ser	His	His	Thr	Ala	Pro	His	Ser	His	Ala			
			115					120					125		

<210> 1443

<211> 286

<212> DNA

<213> Homo sapiens

<400> 1443

atggcagccc tgcgtcccaa ggagctgccca caactaatgg tcgccatcgg caatgcgagc  
 60  
 ataaaaacgga caacacgctg cctgatcgaa tggcaactcc acaccatgac ccgtcctgcg  
 120  
 gaagcccgcta cgacttcctg ggctgacatc gactgcgaca agaaaacctg gacgatccca  
 180  
 gcggagcgta tgaaaaagcg acgtgcccac gtcataccgc taaccgagca cgcacttgcc  
 240  
 ttgcttgaga caatcaaacc ctacagcggg cagagagagt acgctg  
 286

<210> 1444

<211> 95

<212> PRT

<213> Homo sapiens

<400> 1444

Met Ala Ala Leu Arg Pro Lys Glu Leu Pro Gln Leu Met Val Ala Ile

```

      1           5           10           15
Gly Asn Ala Ser Ile Lys Arg Thr Thr Arg Cys Leu Ile Glu Trp Gln
      20           25           30
Leu His Thr Met Thr Arg Pro Ala Glu Ala Ala Thr Thr Ser Trp Ala
      35           40           45
Asp Ile Asp Cys Asp Lys Lys Thr Trp Thr Thr Ile Pro Ala Glu Arg Met
      50           55           60
Lys Lys Arg Arg Ala His Val Ile Pro Leu Thr Glu His Ala Leu Ala
      65           70           75           80
Leu Leu Glu Thr Ile Lys Pro Tyr Ser Gly His Arg Glu Tyr Ala
      85           90           95

```

&lt;210&gt; 1445

&lt;211&gt; 294

&lt;212&gt; DNA

&lt;213&gt; Homo sapiens

&lt;400&gt; 1445

```

naccggttca ccggggaggc ctcgatggg ggcaaggtca gcattggttg cccgattccc
60
atgtacctgt atggcacctt cgtcgttccg gacttcgacg cattcatctc cggcaagcag
120
actccctacc gggagacggt ctccaagcgg accactactt ggttcttttcg agccggctca
180
gaggtttatg agctggccnt ccccgagga gtcgtgttcg ccatgcaaag cgctcgttg
240
aggggtggacc ccgacaacac cgtcgacaag ctgccaacac tcggcgagcg cctg
294

```

&lt;210&gt; 1446

&lt;211&gt; 98

&lt;212&gt; PRT

&lt;213&gt; Homo sapiens

&lt;400&gt; 1446

```

Xaa Arg Phe Thr Gly Glu Ala Phe Asp Gly Gly Lys Val Ser Met Val
1           5           10           15
Gly Pro Ile Pro Met Tyr Leu Tyr Gly Thr Phe Val Val Pro Asp Phe
      20           25           30
Asp Ala Phe Ile Ser Gly Lys Gln Thr Pro Tyr Arg Glu Thr Val Ser
      35           40           45
Lys Arg Thr Thr Thr Trp Phe Phe Arg Ala Gly Ser Glu Val Tyr Glu
      50           55           60
Leu Ala Xaa Pro Arg Gly Val Val Phe Ala Met Gln Ser Ala Ser Leu
      65           70           75           80
Arg Val Asp Pro Asp Asn Thr Val Asp Lys Leu Pro Thr Leu Gly Glu
      85           90           95
Arg Leu

```

&lt;210&gt; 1447

&lt;211&gt; 363

&lt;212&gt; DNA

&lt;213&gt; Homo sapiens

&lt;400&gt; 1447

nnncagaacc agaagatcaa cctgcatgac ggctcgttct ccgacgttgg cggcatggtg  
 60  
 ggtaatatct ccattgcccc ggggtgtcacg atcgagaacg ccgtcggcgg ttcgggcaac  
 120  
 gacctgtga tcggcaacga tgcggccaac gaactgcgcg cgggtgccgg caacgatatc  
 180  
 ctctacgggg ctggcgggtgc cgaccagggt tgggttggtt cgggcaacaa taccttcgtg  
 240  
 ttcgccggcg tttccgactc ggcggccgaaa cgggccgacc ggatcatgga cttcaccagt  
 300  
 ggccaggaca agatcgatct gtcggggatc acccatgggt cgggcctgac cttcgtcaac  
 360  
 gcg  
 363

&lt;210&gt; 1448

&lt;211&gt; 121

&lt;212&gt; PRT

&lt;213&gt; Homo sapiens

&lt;400&gt; 1448

Xaa	Gln	Asn	Gln	Lys	Ile	Asn	Leu	His	Asp	Gly	Ser	Phe	Ser	Asp	Val
1			5						10					15	
Gly	Gly	Met	Val	Gly	Asn	Ile	Ser	Ile	Ala	Gln	Gly	Val	Thr	Ile	Glu
			20					25					30		
Asn	Ala	Val	Gly	Gly	Ser	Gly	Asn	Asp	Leu	Leu	Ile	Gly	Asn	Asp	Ala
			35				40				45				
Ala	Asn	Glu	Leu	Arg	Gly	Gly	Ala	Gly	Asn	Asp	Ile	Leu	Tyr	Gly	Ala
			50			55					60				
Gly	Gly	Ala	Asp	Gln	Val	Trp	Val	Gly	Ser	Gly	Asn	Asn	Thr	Phe	Val
			65			70				75				80	
Phe	Ala	Ala	Val	Ser	Asp	Ser	Ala	Pro	Lys	Ala	Ala	Asp	Arg	Ile	Met
			85						90				95		
Asp	Phe	Thr	Ser	Gly	Gln	Asp	Lys	Ile	Asp	Leu	Ser	Gly	Ile	Thr	His
			100				105						110		
Gly	Ser	Gly	Leu	Thr	Phe	Val	Asn	Ala							
			115				120								

&lt;210&gt; 1449

&lt;211&gt; 541

&lt;212&gt; DNA

&lt;213&gt; Homo sapiens

&lt;400&gt; 1449

aggcgctacc agattatggg ctgcccgcacc tcaatgacat gcgcttgagc ctgcatgaat  
 60  
 cactcagcca atcgcgcttg cggattgaac gctttatcca ggcgtacgag cctcggttgg  
 120  
 ggaatgtacg tgtcaggagg agggagggtg cctacaaccc ttgtgactg gcgtttgtga  
 180  
 ttgaggcaac cgctgctcgc gatggtgtca tccaacctgt ggtgtttaac gcacacctgg  
 240

tggggggggg gacgggtcga gtgtgttacc tgatgttctt tgagctcttt taccagagtg  
 300  
 aactcagtgc attgcgcacg cttgggcggc gtttttctga acgcaatccc gccttggcag  
 360  
 cctttcttgc cgattccagg ccaggaccgg gacgtcgagg gtctattgaa agtctttgcc  
 420  
 ttttccccg ggccgctgcg ccagaagctt gctgacgagc ttctgaggtt gacccattca  
 480  
 ttgatgcact tgggtgggcc caattacatg cggccattgc cggccttcag tattttgcag  
 540  
 t  
 541

<210> 1450

<211> 138

<212> PRT

<213> Homo sapiens

<400> 1450

Met	Arg	Leu	Ser	Leu	His	Glu	Ser	Leu	Ser	Gln	Ser	Arg	Leu	Ala	Ile
1			5					10					15		
Glu	Arg	Phe	Ile	Gln	Ala	Tyr	Glu	Pro	Arg	Leu	Gly	Asn	Val	Arg	Val
		20					25					30			
Arg	Arg	Arg	Glu	Gly	Ala	Tyr	Asn	Pro	Leu	Val	Leu	Ala	Phe	Val	Ile
		35				40					45				
Glu	Ala	Thr	Val	Val	Ile	Asp	Gly	Val	Ile	Gln	Pro	Val	Val	Phe	Asn
		50				55				60					
Ala	His	Leu	Val	Gly	Gly	Thr	Gly	Arg	Val	Cys	Tyr	Leu	Met	Phe	
65				70				75				80			
Phe	Glu	Leu	Phe	Tyr	Gln	Ser	Glu	Leu	Ser	Ala	Leu	Arg	Thr	Leu	Gly
		85						90				95			
Arg	Arg	Phe	Ser	Glu	Arg	Asn	Pro	Ala	Leu	Ala	Pro	Phe	Leu	Ala	Asp
		100					105					110			
Ser	Arg	Pro	Gly	Pro	Gly	Arg	Arg	Gly	Ser	Ile	Glu	Ser	Leu	Cys	Leu
		115				120						125			
Ser	Pro	Arg	Ala	Pro	Ala	Pro	Glu	Ala	Cys						
		130				135									

<210> 1451

<211> 326

<212> DNA

<213> Homo sapiens

<400> 1451

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 60  
 acacgaacac agtttgcact cctgtgggcg actacgaggt ggtgctgacg gattcttggg  
 120  
 gtgatggctg gaacccgggt tcttacctga acatgtacga cagctcggac aacttgatcc  
 180  
 aggagttcac gatggattac gacgcctctt ctcgtaacat taaggagaag cacggcttct  
 240  
 tcacgggtgc ttccaccacg agcagcgga ctgtctggaa gattatggcg aacaagaagg  
 300

tggacaagga gtggaactct gtggac  
326

<210> 1452  
<211> 95  
<212> PRT  
<213> Homo sapiens

<400> 1452  
Met Ala Thr Gly Val Lys Tyr Thr Asn Thr Val Cys Thr Pro Val Gly  
1 5 10 15  
Asp Tyr Glu Val Val Leu Thr Asp Ser Trp Gly Asp Gly Trp Asn Pro  
20 25 30  
Gly Ser Tyr Leu Asn Met Tyr Asp Ser Ser Asp Asn Leu Ile Gln Glu  
35 40 45  
Phe Thr Met Asp Tyr Asp Ala Ser Ser Arg Asn Ile Lys Glu Lys His  
50 55 60  
Gly Phe Phe Thr Val Ala Ser Thr Thr Ser Ser Gly Thr Val Trp Lys  
65 70 75 80  
Ile Met Ala Asn Lys Lys Val Asp Lys Glu Trp Asn Ser Val Asp  
85 90 95

<210> 1453  
<211> 326  
<212> DNA  
<213> Homo sapiens

<400> 1453  
cgggccgcgc gccccacgtg caccgcgtgc atggtccctc gaggacgcgc atctgcagcc  
60  
cccgctcccc gcaaacctcc aggccggaga gctccggcca aggccgctgc atcacatgat  
120  
acaggaggagg catgcacacg etcacgtgca cacagcctca aacacgctca tccgtacata  
180  
caggagtgtg tgaacgcact gaggtgcaca ggacaaagac acagacacct gtttgcacac  
240  
cgactcgcct atagaaatgt gcaaacacc cgtgcgcaca ggccccctcca cccatgcagg  
300  
cgtgtgcaca tcacccacac ggacac  
326

<210> 1454  
<211> 98  
<212> PRT  
<213> Homo sapiens

<400> 1454  
Met Val Pro Arg Gly Arg Ala Ser Ala Ala Pro Ala Pro Arg Lys Pro  
1 5 10 15  
Pro Gly Arg Arg Ala Pro Ala Lys Ala Ala Ala Ser His Asp Thr Gly  
20 25 30  
Gly Ala Cys Thr Arg Ser Arg Ala His Ser Leu Lys His Ala His Pro  
35 40 45  
Tyr Ile Gln Glu Cys Val Asn Ala Leu Arg Cys Thr Gly Gln Arg His

```

      50              55              60
Arg His Leu Phe Ala His Arg Leu Ala Tyr Arg Asn Val Gln Thr Thr
65              70              75              80
Arg Ala His Arg Pro Leu His Pro Cys Arg Arg Val His Ile Thr His
      85              90              95
Thr Asp

```

```

<210> 1455
<211> 314
<212> DNA
<213> Homo sapiens

```

```

<400> 1455
gatccagtc aaaaagcatg tgggggttgct cacgctgggt ggaaaggtag tttgttggtg
60
gttgctatgg ctacagttaa tgctatgata gcagaatatg gctgccgttt ggaataactt
120
tggtggacct tggacccttc agtgggacct ggctgtttta ctctccagg ggaatcagca
180
gaggcatttc ataactctca tctgcatgt gtacaactat ttgattcacc aaatccctgt
240
atcgacatcc gtaaagccac aagatacttg actggatttt tgtataactg cttcctgcct
300
ccttccaaac tgac
314

```

```

<210> 1456
<211> 104
<212> PRT
<213> Homo sapiens

```

```

<400> 1456
Asp Pro Val Lys Lys Ala Cys Gly Val Ala His Ala Gly Trp Lys Gly
1      5      10      15
Thr Leu Leu Gly Val Ala Met Ala Thr Val Asn Ala Met Ile Ala Glu
      20      25      30
Tyr Gly Cys Arg Leu Glu Lys Leu Trp Trp Thr Leu Asp Pro Ser Val
      35      40      45
Gly Pro Gly Cys Phe Thr Leu Pro Gly Glu Ser Ala Glu Ala Phe His
      50      55      60
Asn Leu His Pro Ala Cys Val Gln Leu Phe Asp Ser Pro Asn Pro Cys
      65      70      75      80
Ile Asp Ile Arg Lys Ala Thr Arg Tyr Leu Thr Gly Phe Leu Tyr Asn
      85      90      95
Cys Phe Leu Pro Pro Ser Lys Leu
      100

```

```

<210> 1457
<211> 437
<212> DNA
<213> Homo sapiens

```

```

<400> 1457

```

nattcaccag aatccccaga atccccaaa tactacattg cactttaggg ttccttteta  
 60  
 gcacatgcat tgctaaaatc ggcccccaga accttctctg cccctctccc atgggatgca  
 120  
 atgtcagcgg agaacacagac caagtctgca ctagectgtc cctacacccct cccagga  
 180  
 aggtcccccct gcgccaagtc aacagctccc agaggaagcc cactgactgc tctcttcagg  
 240  
 gtgggggaca caggaagtcc acgcttgac ggaggggacg ggcacaccta cgtgactgc  
 300  
 cagagcccat tttgggagtc tgattggaat ttatacagca ggagcactgg gcaactcggg  
 360  
 aactccagcc cacaaccaag tcaactgggt gcctaccac tgcccaagtg cctcaagtca  
 420  
 acacattcct gcaactgn  
 437

&lt;210&gt; 1458

&lt;211&gt; 105

&lt;212&gt; PRT

&lt;213&gt; Homo sapiens

&lt;400&gt; 1458

Met	Ser	Ala	Glu	Lys	Gln	Thr	Lys	Ser	Ala	Leu	Ala	Cys	Pro	Tyr	Thr
1				5					10					15	
Leu	Pro	Arg	Lys	Arg	Ser	Pro	Cys	Ala	Lys	Ser	Thr	Ala	Pro	Arg	Gly
			20					25					30		
Ser	Pro	Leu	Thr	Ala	Leu	Phe	Arg	Val	Gly	Asp	Thr	Gly	Ser	Pro	Arg
			35				40					45			
Leu	His	Gly	Gly	Asp	Gly	His	Thr	Tyr	Arg	Asp	Cys	Gln	Ser	Pro	Phe
			50			55				60					
Trp	Glu	Ser	Asp	Trp	Asn	Leu	Tyr	Ser	Arg	Ser	Thr	Gly	His	Ser	Asp
			65			70				75				80	
Asn	Ser	Ser	Pro	Gln	Pro	Ser	His	Trp	Ala	Ala	Tyr	Pro	Leu	Pro	Lys
				85					90					95	
Cys	Leu	Lys	Ser	Thr	His	Ser	Cys	Thr							
			100					105							

&lt;210&gt; 1459

&lt;211&gt; 295

&lt;212&gt; DNA

&lt;213&gt; Homo sapiens

&lt;400&gt; 1459

ngagagggtca cgggccacga gattcccgcg gaggtcgcg cccgccgcgc gggcgacccg  
 60  
 gccgtactca tcgcttcttc ggagaagatc aagcgggagc tgggctggaa cccgacgcgc  
 120  
 acggatctgc gccgcatcgt cgaggacgcc tgggccttta cggctggggg ggccgaacgg  
 180  
 taaacccttg gtaaggcgac gcagttatcc tcgatctcct cccagagcag gcggcagccc  
 240  
 gccactgcgg tgctcgagcat gccctccac tccccgatcg ccatgagctg gcgan  
 295

&lt;210&gt; 1460

&lt;211&gt; 60

&lt;212&gt; PRT

&lt;213&gt; Homo sapiens

&lt;400&gt; 1460

```

Xaa Glu Val Thr Gly His Glu Ile Pro Ala Glu Val Ala Pro Arg Arg
 1           5           10          15
Ala Gly Asp Pro Ala Val Leu Ile Ala Ser Ser Glu Lys Ile Lys Arg
          20           25          30
Glu Leu Gly Trp Asn Pro Thr Arg Thr Asp Leu Arg Arg Ile Val Glu
          35           40          45
Asp Ala Trp Ala Phe Thr Ala Gly Gly Ala Glu Arg
          50           55          60

```

&lt;210&gt; 1461

&lt;211&gt; 432

&lt;212&gt; DNA

&lt;213&gt; Homo sapiens

&lt;400&gt; 1461

```

nnaagcttac gtgaaatgaa acgtcaatgg caacaggcga caatcgtgcc agagaaattg
60
ggtgaagcac agtcaattgc gggttctaaa tgcgaacacg cctggcgctt acaacgttca
120
gaaaatgact gggtaggcct tgaaaaaaat tggaaagagg ttgttgcatc atccccgtgaa
180
gaagcacaaa ttcgcggtga agcgcttaat ctaacgcctt atgatgcgat gcttgataag
240
ttgaaccag gcacgacaac ggtttcgctc aatactttgt tttcaaagg taaagacgtgg
300
ttacctacgt taattgaaaa agcgcttagaa aagcagcaat cagaatctat cattatgccaa
360
tcaggcacct tttccacggc gaatcaaaaa gcccttgatg tagaaataat gaaattgtta
420
aaattcgact tt
432

```

&lt;210&gt; 1462

&lt;211&gt; 144

&lt;212&gt; PRT

&lt;213&gt; Homo sapiens

&lt;400&gt; 1462

```

Xaa Ser Leu Arg Glu Met Lys Arg Gln Trp Gln Gln Ala Thr Ile Val
 1           5           10          15
Pro Glu Lys Leu Val Glu Ala Gln Ser Ile Ala Gly Ser Lys Cys Glu
          20           25          30
His Ala Trp Arg Leu Gln Arg Ser Glu Asn Asp Trp Val Gly Phe Glu
          35           40          45
Lys Asn Trp Lys Glu Val Val Ala Leu Ser Arg Glu Glu Ala Gln Ile
          50           55          60
Arg Gly Glu Ala Leu Asn Leu Thr Pro Tyr Asp Ala Met Leu Asp Lys

```

```

65          70          75          80
Phe Glu Pro Gly Thr Thr Val Ser Leu Asn Thr Leu Phe Ser Lys
      85          90          95
Val Lys Thr Trp Leu Pro Thr Leu Ile Glu Lys Ala Leu Glu Lys Gln
      100        105        110
Gln Ser Glu Ser Ile Ile Met Pro Ser Gly Thr Phe Ser Thr Ala Asn
      115        120        125
Gln Lys Ala Leu Gly Leu Glu Ile Met Lys Leu Leu Lys Phe Asp Phe
      130        135        140

```

<210> 1463  
 <211> 421  
 <212> DNA  
 <213> Homo sapiens

```

<400> 1463
nacgcgttcc agagcaagct ggacctgacc gccttcgaat tcttctccga caaggccctg
60
gccaaagtca tgggccgtgg cgacgtaccg gcaccgttcg aaaccgaatg cccgttctac
120
gcgctgctgg aattcgaagc caccaccgaa gaagtcgcca accacgccct ggaaccttc
180
gagcactcgc ttgagcaggg ctgggtgctg gacggcgtga tgagccagag cgaaacccaa
240
ctgcacaacc tgtggaaact gcgcgagtag atctcggaga ctatttccca ctggagcgcc
300
tacaagaacg acatctccgt gaccttttcc aaagtcctcc cgttcttgaa ggaattgac
360
gcgatcgtcg tgagcattac ccggacttcg aaattgttgg tcggccacat cggcgacgca
420
a
421

```

<210> 1464  
 <211> 140  
 <212> PRT  
 <213> Homo sapiens

```

<400> 1464
Xaa Ala Phe Gln Ser Lys Leu Asp Leu Thr Ala Phe Glu Phe Phe Ser
1      5      10
Asp Lys Ala Leu Ala Lys Val Met Gly Arg Gly Asp Val Pro Ala Pro
20     25     30
Phe Glu Thr Glu Cys Pro Phe Tyr Ala Leu Leu Glu Phe Glu Ala Thr
35     40     45
Thr Glu Glu Val Ala Asn His Ala Leu Glu Thr Phe Glu His Cys Val
50     55     60
Glu Gln Gly Trp Val Leu Asp Gly Val Met Ser Gln Ser Glu Thr Gln
65     70     75     80
Leu His Asn Leu Trp Lys Leu Arg Glu Tyr Ile Ser Glu Thr Ile Ser
85     90     95
His Trp Thr Pro Tyr Lys Asn Asp Ile Ser Val Thr Val Ser Lys Val
100    105    110
Pro Ala Phe Leu Lys Glu Ile Asp Ala Ile Val Val Ser Ile Thr Arg

```

	115		120		125						
Thr	Ser	Lys	Leu	Leu	Val	Gly	His	Ile	Gly	Asp	Ala
	130				135					140	

&lt;210&gt; 1465

&lt;211&gt; 424

&lt;212&gt; DNA

&lt;213&gt; Homo sapiens

&lt;400&gt; 1465

```

gtgcacggtc tttgagctgc aattcccagg aatcaggggc cataggcggg agatggcatg
60
cagcctctcg ggcggaag tggtctacag tgcctgcttg cccgggcagg cagctcgtag
120
gcttatatgc ttagtggtta tggccctac cactgttttt gacogcgcta ccattcgcca
180
caaccctacc gaattcaaac tccggtggat ttcccacgcc gacgagtga agcgga
240
ccgtctcgca acagagtcta aagccgctga gacggactgc tcagtacatg gggatctctg
300
gaccttggcc acggaagttt tcgggtcaagc acccgaaatc gacttcccat atatgaaat
360
cactcggcag gaatgtaggt tcctttttct gccgagaaaac gacatcagct tgagctgctt
420
cacg
424

```

&lt;210&gt; 1466

&lt;211&gt; 124

&lt;212&gt; PRT

&lt;213&gt; Homo sapiens

&lt;400&gt; 1466

Met	Ala	Cys	Ser	Leu	Ser	Gly	Gly	Lys	Val	Val	Tyr	Ser	Ala	Cys	Leu
1				5					10					15	
Pro	Gly	Gln	Ala	Ala	Arg	Arg	Leu	Ile	Cys	Leu	Val	Val	Met	Ala	Pro
			20				25						30		
Thr	Thr	Val	Phe	Asp	Arg	Ala	Thr	Ile	Arg	His	Asn	Leu	Thr	Glu	Phe
		35					40					45			
Lys	Leu	Arg	Trp	Ile	Ser	His	Ala	Glu	Gln	Trp	Lys	Ala	Glu	Asn	Arg
		50				55				60					
Pro	Ala	Thr	Glu	Ser	Lys	Ala	Ala	Glu	Thr	Asp	Cys	Ser	Val	His	Gly
65					70				75					80	
Asp	Leu	Trp	Thr	Leu	Ala	Thr	Glu	Val	Phe	Gly	Gln	Ala	Pro	Glu	Phe
			85					90						95	
Asp	Phe	Pro	Tyr	Met	Lys	Leu	Thr	Arg	Gln	Glu	Cys	Arg	Phe	Leu	Phe
			100					105						110	
Leu	Pro	Arg	Asn	Asp	Ile	Ser	Leu	Ser	Cys	Phe	Thr				
			115					120							

&lt;210&gt; 1467

&lt;211&gt; 441

&lt;212&gt; DNA

&lt;213&gt; Homo sapiens

&lt;400&gt; 1467

nacgcgtgac ggcgaatgag cggcggaggc atgacaacga gcgcaccgtt cgcgagcttg  
 60  
 gtgccgtgca tcatggctca agtgccgcgc aactttcggc tgctcgagga gctggagaaa  
 120  
 ggcgaaaagg ggctaggaaa tggctcgtgc tcttacggcc ttgcgaacag tgatgacatt  
 180  
 cgtagctatg cgcctgtgct gatggctatg acaacgtgga atggccacgat cctaggcccc  
 240  
 gccaaactcg tgcatgagaa ccgcataatac tgccctgcgc tcgtgtgtgg cgactcgtac  
 300  
 cctcttgtgc cgcctgagat ttggttccag acgcgcatac acttgccgtg cgtcgatggc  
 360  
 cacacggggc gcgtcatgcc cgatcagttc tcgcccctct tgcattggcg tgatgagtac  
 420  
 actatggaaa gctgctgcat g  
 441

&lt;210&gt; 1468

&lt;211&gt; 123

&lt;212&gt; PRT

&lt;213&gt; Homo sapiens

&lt;400&gt; 1468

Met	Ala	Gln	Val	Pro	Arg	Asn	Phe	Arg	Leu	Leu	Glu	Glu	Leu	Glu	Lys
1				5					10				15		
Gly	Glu	Lys	Gly	Leu	Gly	Asn	Gly	Ser	Cys	Ser	Tyr	Gly	Leu	Ala	Asn
			20					25					30		
Ser	Asp	Asp	Ile	Arg	Thr	Tyr	Ala	Pro	Val	Leu	Met	Val	Met	Thr	Thr
			35					40				45			
Trp	Asn	Ala	Thr	Ile	Leu	Gly	Pro	Ala	Asn	Ser	Val	His	Glu	Asn	Arg
			50			55					60				
Ile	Tyr	Cys	Leu	Arg	Leu	Val	Cys	Gly	Asp	Ser	Tyr	Pro	Leu	Val	Pro
65					70				75					80	
Pro	Glu	Ile	Trp	Phe	Gln	Thr	Arg	Ile	Asn	Leu	Pro	Cys	Val	Asp	Ala
				85					90					95	
His	Thr	Gly	Arg	Val	Met	Pro	Asp	Gln	Phe	Ser	Pro	Leu	Leu	His	Trp
			100					105					110		
Arg	Asp	Glu	Tyr	Thr	Met	Glu	Ser	Cys	Cys	Met					
			115					120							

&lt;210&gt; 1469

&lt;211&gt; 468

&lt;212&gt; DNA

&lt;213&gt; Homo sapiens

&lt;400&gt; 1469

nngctcgatc tagtctatgg gctaaatgat cgaccgaacc cttttattgc ttttttagcg  
 60  
 gcgcttcaac atcttttagc gatttttagt ccaattgtca ccnctggatt attgatttgc  
 120  
 ttggcattag gcgtgtctcg cgaagacacc aatatgattc tttctatgac attaatatt  
 180

tcagggatcg cgactttctt gcaatgtaaa aaagttgggc catttggcgc tggattactt  
 240  
 attgttcaag gaactagctt taatttcatt ggtcctatca ttggtatagg tagctcaatg  
 300  
 gtggctgctg gcacacctgt cgaacaagtt atggctgcga tttttggtgt cgtaaatcgca  
 360  
 gggttcattta tcgaaatggg cgtatctcaa attttacctt gggtaaaaaa gctgattact  
 420  
 cctctcgta caggaatcgt cgttctgttg attggtctac cattaatg  
 468

<210> 1470

<211> 156

<212> PRT

<213> Homo sapiens

<400> 1470

Xaa	Leu	Asp	Leu	Val	Tyr	Gly	Leu	Asn	Asp	Arg	Pro	Asn	Pro	Phe	Ile
1				5					10					15	
Ala	Phe	Leu	Ala	Ala	Leu	Gln	His	Leu	Leu	Ala	Ile	Leu	Val	Pro	Ile
			20					25					30		
Val	Thr	Xaa	Gly	Leu	Leu	Ile	Cys	Leu	Ala	Leu	Gly	Val	Ser	Arg	Glu
		35					40					45			
Asp	Thr	Asn	Met	Ile	Leu	Ser	Met	Ser	Leu	Ile	Ile	Ser	Gly	Ile	Ala
		50				55					60				
Thr	Phe	Leu	Gln	Cys	Lys	Lys	Val	Gly	Pro	Phe	Gly	Ala	Gly	Leu	Leu
65					70				75					80	
Ile	Val	Gln	Gly	Thr	Ser	Phe	Asn	Phe	Ile	Gly	Pro	Ile	Ile	Gly	Ile
				85					90					95	
Gly	Ser	Ser	Met	Val	Ala	Ala	Gly	Thr	Pro	Val	Glu	Gln	Val	Met	Ala
			100					105					110		
Ala	Ile	Phe	Gly	Val	Val	Ile	Ala	Gly	Ser	Phe	Ile	Glu	Met	Gly	Val
			115				120					125			
Ser	Gln	Ile	Leu	Pro	Trp	Val	Lys	Lys	Leu	Ile	Thr	Pro	Leu	Val	Thr
		130				135					140				
Gly	Ile	Val	Val	Leu	Leu	Ile	Gly	Leu	Pro	Leu	Met				
145					150					155					

<210> 1471

<211> 341

<212> DNA

<213> Homo sapiens

<400> 1471

gcgtggatgg ggatcctgaa aaacaatggc gtgctgaata acttcttgct gtggctcggc  
 60  
 gttatcgatc agccgctgac gattttgcac accaatctgg cggtgtatat cggcattgtg  
 120  
 tacgcttata tgccgcttat ggtactgccc atttatacgg cgtgacgcg cattgattac  
 180  
 tcgctggtgg aggcctcact ggatctcggg gcccgctccg tgaaaacggt tttcaatgtg  
 240  
 attgtccgcg tcaccaaagg cggcattatc gcggggctga tgctgggtgt tatcccggcg  
 300

gtcgggtgagt ttgttatccc ggaactgctc ggcgggcgcc g  
341

<210> 1472  
<211> 113  
<212> PRT  
<213> Homo sapiens

<400> 1472  
Ala Trp Met Gly Ile Leu Lys Asn Asn Gly Val Leu Asn Asn Phe Leu  
1 5 10 15  
Leu Trp Leu Gly Val Ile Asp Gln Pro Leu Thr Ile Leu His Thr Asn  
20 25 30  
Leu Ala Val Tyr Ile Gly Ile Val Tyr Ala Tyr Leu Pro Phe Met Val  
35 40 45  
Leu Pro Ile Tyr Thr Ala Leu Thr Arg Ile Asp Tyr Ser Leu Val Glu  
50 55 60  
Ala Ser Leu Asp Leu Gly Ala Arg Pro Leu Lys Thr Phe Phe Asn Val  
65 70 75 80  
Ile Val Pro Leu Thr Lys Gly Gly Ile Ile Ala Gly Ser Met Leu Val  
85 90 95  
Phe Ile Pro Ala Val Gly Glu Phe Val Ile Pro Glu Leu Leu Gly Gly  
100 105 110  
Gly

<210> 1473  
<211> 352  
<212> DNA  
<213> Homo sapiens

<400> 1473  
tccggaactg ctcaatgtct gtccagcaca taagatccat gcttgaagaa tgagtctcaa  
60  
gaaactgacg gaaatgttca aactccagtt tgttggttaag cagatcacta aacttaaaa  
120  
gcttgatttc tgcaggaaca ttatcccaat attctgttctg tttagagacg ttagagagtg  
180  
ataaaatgcc agttccaatt tcacaagtgg tgcctcagc tttcttggaa aatgtctctt  
240  
tatgcaaaagc ctgtagcttt ctgaagtatg tggagtctaa ctgtcgagtt tcttccacca  
300  
gtccacactt ttataagca atttggtccg attttaccat ctttgtccat gg  
352

<210> 1474  
<211> 113  
<212> PRT  
<213> Homo sapiens

<400> 1474  
Met Val Lys Ser Asp Gln Ile Ala Tyr Lys Lys Val Glu Leu Val Glu  
1 5 10 15  
Glu Thr Arg Gln Leu Asp Ser Thr Tyr Phe Arg Lys Leu Gln Ala Leu





```

145                      150                      155                      160
Asp Trp Asn Gly Lys Arg
                      165

<210> 1479
<211> 421
<212> DNA
<213> Homo sapiens

<400> 1479
acgcgtgtgg agctggcacc atgaaagcac gatgtgcac actcatagag gcaggcacac
60
ttaagtatgt tctttacatt gaaacagaaa ggaagaaga taggaaaaat ggtgccagca
120
cgctggggtt tttttgtttg ctgttttggg tggggtgtgc tagtgcagtg tccgggtgat
180
gcttttgtcc tcaaacaggc ttgttcccg gtcagagttt cattattgtt gctggtaaac
240
aaatgccaaag tttgacaaaa aacagtgaag taaagcaaaa gattttgaaa aatgcttcac
300
catgtcagaa ggaagaacc cttttcacgg gtgcctgccc acatttcctt gccagcctg
360
agaccctatt gactttgaat tatcttttgc tgttttattt ctatgaaaaa tatatacgcg
420
t
421

<210> 1480
<211> 133
<212> PRT
<213> Homo sapiens

<400> 1480
Met Lys Ala Arg Cys Ala Ser Leu Ile Glu Ala Gly Thr Leu Lys Tyr
1          5          10          15
Val Leu Tyr Ile Glu Thr Glu Arg Lys Glu Asp Arg Lys Asn Gly Ala
20         25         30
Ser Thr Leu Gly Phe Phe Cys Leu Leu Phe Trp Val Gly Cys Ala Ser
35         40         45
Ala Val Ser Gly Val Arg Phe Cys Pro Gln Thr Gly Leu Phe Pro Gly
50         55         60
Gln Ser Phe Ile Ile Val Ala Gly Lys Gln Met Pro Ser Leu Thr Lys
65         70         75         80
Asn Ser Glu Ile Lys Gln Lys Ile Leu Lys Asn Ala Ser Ser Cys Gln
85         90         95
Lys Glu Arg Thr Leu Phe Thr Gly Ala Cys Pro His Phe Leu Ala Gln
100        105        110
Pro Glu Thr Leu Leu Thr Leu Asn Tyr Leu Leu Leu Phe Tyr Phe Tyr
115        120        125
Glu Asn Tyr Ile Arg
130

<210> 1481
<211> 545

```

&lt;212&gt; DNA

&lt;213&gt; Homo sapiens

&lt;400&gt; 1481

gtcgggtcgc cgccagtcct cgtgccgaca tgcagttcct ggccccggag gtcgcatcca  
 60  
 tccggatgca gatgggcgag ttggccacgc gcgattattt gcgctcggag ctacgcgacg  
 120  
 agtttgcgctc cctgctcgag gagatcgagg cctcacccgc ctcccactaa ctgaccgggt  
 180  
 tcgcgacgag cgagttgtcg catcggggcca acggtgtgta gacaagtcag catgagcacc  
 240  
 gagaacccagc tgggtaaggc cattgccgat gcgttgtcgc acgtcaatga ccccgagatc  
 300  
 aaacgcccc ttaccgatct caacatgatt gatgagatta ccgtcgacga gcaaggacgc  
 360  
 gctttctgctc gcacccgtct gaccgtcgcc ggggtgtccc tcaagaccga gctgcgtgag  
 420  
 caggccaccg aggtgtgtcg cagcgttgac ggggtgacca gtgtttccgt cgaactcggc  
 480  
 accatgaccg acgaacagcg cgatgctctc aaagttcagc tgcgcgggtga cgtccccgaa  
 540  
 cgcggt  
 545

&lt;210&gt; 1482

&lt;211&gt; 104

&lt;212&gt; PRT

&lt;213&gt; Homo sapiens

&lt;400&gt; 1482

Met Ser Thr Glu Asn Pro Val Val Lys Ala Ile Ala Asp Ala Leu Ser  
 1 5 10 15  
 His Val Asn Asp Pro Glu Ile Lys Arg Pro Ile Thr Asp Leu Asn Met  
 20 25 30  
 Ile Asp Glu Ile Thr Val Asp Glu Gln Gly Arg Ala Phe Val Arg Ile  
 35 40 45  
 Leu Leu Thr Val Ala Gly Cys Pro Leu Lys Thr Glu Leu Arg Glu Gln  
 50 55 60  
 Ala Thr Glu Ala Val Arg Ser Val Asp Gly Val Thr Ser Val Ser Val  
 65 70 75 80  
 Glu Leu Gly Thr Met Thr Asp Glu Gln Arg Asp Ala Leu Lys Val Gln  
 85 90 95  
 Leu Arg Gly Asp Val Pro Glu Arg  
 100

&lt;210&gt; 1483

&lt;211&gt; 625

&lt;212&gt; DNA

&lt;213&gt; Homo sapiens

&lt;400&gt; 1483

gtacgggttc gagagggtta cagtgtccga gaggtcacac tggccaaagg aggggtcccaa  
 60

ttggaggtaa agctggtgct gctgtggaaa cacaacatgc gcattgagta tgtggctatg  
 120  
 gcatcctggc ccctggagcc tgagggccct cgagtaaacac ggggtgaagt gacgatggaa  
 180  
 ggcggtctacg acattttgca tgaatgtgcc tgtgcactaa ggcagcccatc tcgttcattg  
 240  
 tatcgtaccc atgttatccg gcgtttctgg aacacgctgc agagcatcaa ccagacagac  
 300  
 cagatgcttg cccaccttca gtccttctcc tcagtgcctg agcatttcac gcttctcgac  
 360  
 agcaccaaga gcgagtgcc actcttctac atccctccag gctcccaacc cccgggtgctc  
 420  
 tccctccagc ccagtgggtc tgactcatcc catgccagc ttgctgccta ctggaagccc  
 480  
 agtgcgtgcc atggatgcaa attcctggca gcgatggctg cacatgcac gcctgggtgt  
 540  
 aatcctggag catgacacac caatcccca gcaattgcac accccgggca gcaatggggc  
 600  
 ctactacgga gagaagacaa cgcgt  
 625

&lt;210&gt; 1484

&lt;211&gt; 184

&lt;212&gt; PRT

&lt;213&gt; Homo sapiens

&lt;400&gt; 1484

Val	Arg	Leu	Arg	Glu	Gly	Tyr	Ser	Val	Arg	Glu	Val	Thr	Leu	Ala	Lys
1				5					10					15	
Gly	Gly	Ser	Gln	Leu	Glu	Val	Lys	Leu	Val	Leu	Leu	Trp	Lys	His	Asn
			20				25						30		
Met	Arg	Ile	Glu	Tyr	Val	Ala	Met	Ala	Ser	Trp	Pro	Leu	Glu	Pro	Glu
		35					40					45			
Gly	Pro	Arg	Val	Thr	Arg	Val	Glu	Val	Thr	Met	Glu	Gly	Gly	Tyr	Asp
		50				55				60					
Ile	Leu	His	Asp	Val	Ser	Cys	Ala	Leu	Arg	Gln	Pro	Ile	Arg	Ser	Leu
65				70					75					80	
Tyr	Arg	Thr	His	Val	Ile	Arg	Arg	Phe	Trp	Asn	Thr	Leu	Gln	Ser	Ile
			85						90				95		
Asn	Gln	Thr	Asp	Gln	Met	Leu	Ala	His	Leu	Gln	Ser	Phe	Ser	Ser	Val
			100					105					110		
Pro	Glu	His	Phe	Thr	Leu	Pro	Asp	Ser	Thr	Lys	Ser	Gly	Val	Pro	Leu
		115					120					125			
Phe	Tyr	Ile	Pro	Pro	Gly	Ser	Thr	Thr	Pro	Val	Leu	Ser	Leu	Gln	Pro
		130				135					140				
Ser	Gly	Ser	Asp	Ser	Ser	His	Ala	Gln	Phe	Ala	Ala	Tyr	Trp	Lys	Pro
145				150					155					160	
Ser	Ala	Val	His	Gly	Cys	Lys	Phe	Leu	Ala	Ala	Met	Ala	Ala	His	Ala
				165					170					175	
Ser	Pro	Gly	Ala	Asn	Pro	Gly	Ala								
				180											

&lt;210&gt; 1485

&lt;211&gt; 2058

&lt;212&gt; DNA

&lt;213&gt; Homo sapiens

&lt;400&gt; 1485

```

ntatgttcag cgttcaacga tattggctac cactatgggtg ccatggctgt cgatgctgag
60
ctgttctctgc cacagtcacg acccagacta tttatcattg gtgtcagaaa cgatatTTTT
120
gttggcgata ttactttctga atcaccgtct aaaatgtggc ataccagaac tttattgaat
180
gcctacagca atctgaaaga tgatgccaaag tccaattggg tatgggtggga ccttcctatg
240
ccagcccaga gaaaatctgc tttcgccgat ttgattgaag aaaaatcctag cagcgtaaag
300
tgccataccc ggaaggaaac acagcagctc ttggatatga tgactgatgt taacttagct
360
aagggttgagg ctgcaaaaaa gctatcgatc gagtctaagg aaaaatgttg agggacaatt
420
tataaaagaa ctgcgaccca tagctttgga gttaaagcgc agcgtgctga agtgcggttt
480
gatgatgttg ccggttgtct tcgcacccct ggaggggggt caagtcggca agtcataatg
540
gtcgttgata acgggactgt aaaaacgagg ttgatctcaa gttagaagaa tgcaaggctt
600
atgggggttac ccgacgaata catattgcc aaaaattata atgaggcgta tcacttaacg
660
ggtgatgggt ttgtagtccc gggtgtatcc cacatagcca ctcatatTTT tgaccagtg
720
atggagcgtg tgtttgagga tgcggcggga ctgcttaagc aaatcgcata gcactgtttt
780
ggcaggaaga tatgagcgtt attccgtgta aaaaggacct tcagctaaaa aaattgattg
840
aatcctatgc agaagccttg aaagttaggg ccataagct aggagagcat ggattaactg
900
aagctgaatt ttatgatagc ggcctcttcc ggggggctat cgagcgaatt cgaggacagt
960
tctccgcgac catgctggag aaaagaaatt tcgttaagca tgttttaaat tacatgcagg
1020
ataacgacta cattgctgat tgggagtcgg ctgggtgaatc gaatcgccat gatttatagg
1080
taactctcaa ttctggggcg aaagctgcta ttgagctgaa aggggtgcctt gatggcaata
1140
acactaacat ctttgatcgc cccctcagg cagaagaatt tgttatctgg agtgtatgca
1200
caaatcctgg tgetgaccct cagcataatg tttggtctgg gcttcacacc agactaagtg
1260
ctgaaatcat ttcacgggag caaaggattg atggaatggt cttttgggac tgggcttgtg
1320
gaacagtcgg aaggccatgc ccaaaaatag caactgaacc tgagcgggct gtaacatttg
1380
ggccgttcaa attgccgcca ccatgtttgt atctttttacc ttcgacgatt ccaagcccaa
1440
gaaacaaccc gtctccaaga gctcagcaga ttgaagacgt gcagctaact aaagcgtttc
1500

```

acgattgttt tgggtgccgg tctgaagaag ttaatttcgt taactttgat gttggttatc  
 1560  
 atggtaaaga tacgcgtccgt aaaacgacta tcattcgaaa cggcgatggtg gagcgtgaat  
 1620  
 cggaatatgac ggcaataaag cgggtcttaat ttgtgcatgc ctatgctgca tgaatccgca  
 1680  
 tgatcgtttt aggatcggtt ttgctgaggg ccgccagttc tgggtgggctt ttgcttatgt  
 1740  
 catgcacctg catgaaaacc gctacataaa gcgggcaggc gtggcgggga tacgagcgcg  
 1800  
 cgcaacgggg tgaatgggtg aatatcaggg gcaatctccg gcacgctggc ggcttgaatc  
 1860  
 gggtaggggtg agtgagaggg agcaataaag aagcgccccg cagaatgctg ctggggcgct  
 1920  
 gtgagaggtg gtcttgttgt cgcggtgccg tgggtcagtc gtagcgattg tcttctgtca  
 1980  
 gccccagcgt gtacggctca aagcggatca cttcttcgcc cagccagtc taaagctccc  
 2040  
 gcagtcgctt ctgcaggc  
 2058

&lt;210&gt; 1486

&lt;211&gt; 256

&lt;212&gt; PRT

&lt;213&gt; Homo sapiens

&lt;400&gt; 1486

Xaa	Cys	Ser	Ala	Phe	Asn	Asp	Ile	Gly	Tyr	His	Tyr	Gly	Ala	Met	Val
1				5					10					15	
Val	Asp	Ala	Ala	Leu	Phe	Leu	Pro	Gln	Ser	Arg	Pro	Arg	Leu	Phe	Ile
			20					25					30		
Ile	Gly	Val	Arg	Asn	Asp	Ile	Phe	Val	Gly	Asp	Ile	Thr	Ser	Glu	Ser
		35					40				45				
Pro	Ser	Lys	Met	Trp	His	Thr	Arg	Thr	Leu	Leu	Asn	Ala	Tyr	Ser	Asn
		50				55					60				
Leu	Lys	Asp	Asp	Ala	Lys	Ser	Asn	Trp	Val	Trp	Trp	Asp	Leu	Pro	Met
65					70				75					80	
Pro	Ala	Gln	Arg	Lys	Ser	Ala	Phe	Ala	Asp	Leu	Ile	Glu	Glu	Asn	Pro
				85				90						95	
Ser	Ser	Val	Lys	Trp	His	Thr	Arg	Lys	Glu	Thr	Gln	Gln	Leu	Leu	Asp
			100					105					110		
Met	Met	Thr	Asp	Val	Asn	Leu	Ala	Lys	Val	Glu	Ala	Ala	Lys	Lys	Leu
			115				120					125			
Ser	Ile	Glu	Ser	Lys	Glu	Asn	Val	Val	Gly	Thr	Ile	Tyr	Lys	Arg	Thr
			130			135					140				
Arg	Thr	Asp	Ser	Phe	Gly	Val	Lys	Ala	Gln	Arg	Ala	Glu	Val	Arg	Phe
145					150				155					160	
Asp	Asp	Val	Ala	Gly	Cys	Leu	Arg	Thr	Pro	Gly	Gly	Gly	Ser	Ser	Arg
				165					170					175	
Gln	Val	Ile	Met	Val	Val	Asp	Asn	Gly	Thr	Val	Lys	Thr	Arg	Leu	Ile
			180					185					190		
Ser	Ser	Arg	Glu	Thr	Ala	Arg	Leu	Met	Gly	Leu	Pro	Asp	Glu	Tyr	Ile
			195				200					205			
Leu	Pro	Lys	Asn	Tyr	Asn	Glu	Ala	Tyr	His	Leu	Thr	Gly	Asp	Gly	Val

210	215	220
Val Val Pro Val Val Ser His Ile Ala Thr His Ile Phe Asp Pro Val		
225	230	235
Met Glu Arg Val Phe Glu Asp Ala Ala Gly Leu Leu Lys Gln Ile Ala		240
	245	250
		255

&lt;210&gt; 1487

&lt;211&gt; 823

&lt;212&gt; DNA

&lt;213&gt; Homo sapiens

&lt;400&gt; 1487

acgcgtgagg ggaggggatg ctgggcagat cttgtgaggg aaaattcagg aaggacctct  
60  
ccgagcaggt gacatttcag ctaaggcttg gaaggatgag gagaagtcag gaactccagg  
120  
catcagggaa tgctggggaa aaaaagcact ccaggcccag ggatcagcaa agcacaggat  
180  
gcctggggga acacacagcc tcagagcatt tgaggaacag aaaaggcaac gtgactaagc  
240  
ttcctggggc ggtgaggtca ggcagggagg tgggtgcgag gtcatggggc cgcaggcaaa  
300  
cggccctccc tcccagtgcc ccacatgcag gccctggagc accaggagcg gggaggctcc  
360  
gtggtgtgtc ttcctgcaag tggcctgcct ttgggagcat cagcccttcc tcttggggac  
420  
tgggagaggc cggcagttag ggaagaatgg ccctcgctcg tcgtagaga atgtagggga  
480  
cacagggcct ctacaggacc cagatctga tcttgtcaga tctgcacgcc cgtgggaggg  
540  
tgctggcgcc agaaacgcgt tgccataagc cttctcccca ctgcaggcag gtgtggtcag  
600  
gggacctcct tggagaacaa ggtgggggaa tttggcagct ttctcagcat ggcgtccatc  
660  
cccctacat tcttggggca cccactgtag gccaggccct gtgccgcatc tgatgataca  
720  
gtgatgacta agtcacagtc cctgcctctg agggccccc atgtgtccgg gacagccaag  
780  
caaccaata tgttaaaatc cagtgtcagg acccnaggag aag  
823

&lt;210&gt; 1488

&lt;211&gt; 149

&lt;212&gt; PRT

&lt;213&gt; Homo sapiens

&lt;400&gt; 1488

Met Leu Gly Arg Ser Cys Glu Gly Lys Phe Arg Lys Asp Leu Ser Glu	
1	15
Gln Val Thr Phe Gln Leu Arg Leu Gly Arg Met Arg Arg Ser Gln Glu	
20	30
Leu Gln Ala Ser Gly Asn Ala Gly Glu Lys Lys His Ser Arg Pro Arg	
35	45
Asp Gln Gln Ser Thr Gly Cys Leu Gly Glu His Thr Ala Ser Glu His	

```

      50                      55                      60
Leu Arg Asn Arg Lys Gly Asn Val Thr Lys Leu Pro Gly Ala Val Arg
65                      70                      75                      80
Ser Gly Arg Glu Val Gly Ala Arg Ser Trp Gly Arg Arg Gln Thr Ala
      85                      90                      95
Leu Pro Pro Ser Ala Pro His Ala Gly Pro Gly Ala Pro Gly Ala Gly
      100                      105                      110
Arg Leu Arg Gly Val Ser Ser Cys Lys Trp Pro Ala Phe Gly Ser Ile
      115                      120                      125
Ser Pro Phe Ser Trp Gly Leu Gly Glu Ala Gly Ser Glu Gly Arg Met
      130                      135                      140
Ala Leu Gly Arg Ala
145

```

&lt;210&gt; 1489

&lt;211&gt; 342

&lt;212&gt; DNA

&lt;213&gt; Homo sapiens

&lt;400&gt; 1489

```

nnccagttca cgcctaagct ggccgcggcc gccgaacaca atgtgcgcaa tgcgctggcc
60
gcgattgctt gcgcgctggg tgccggcctc aaccaggacg ccattcgtgcg cggcctcgaa
120
gccttcgccc cggtcggcgg acgtttgcag cgcaagcagg ccgccagcgg cgcgcccgctc
180
attgacgaca ccacaaacc caatcccaat tcaatgcgcc cggcgatcga cgtgctggcc
240
cgcgtaaccg cgccgcgcat cctggtggtg ggcgacatgg gcgaagtcgg cgcacaggga
300
aaagaatttc acgaagaaat cggggcttac gcacacacgc gt
342

```

&lt;210&gt; 1490

&lt;211&gt; 114

&lt;212&gt; PRT

&lt;213&gt; Homo sapiens

&lt;400&gt; 1490

```

Xaa Gln Phe Thr Val Lys Leu Ala Ala Ala Gly Glu His Asn Val Arg
1      5      10
Asn Ala Leu Ala Ala Ile Ala Cys Ala Val Gly Ala Gly Ile Asn Gln
20     25     30
Asp Ala Ile Val Arg Gly Leu Glu Ala Phe Ala Pro Val Gly Gly Arg
35     40     45
Leu Gln Arg Lys Gln Ala Ala Ser Gly Ala Pro Val Ile Asp Asp Thr
50     55     60
His Asn Pro Asn Pro Asn Ser Met Arg Pro Ala Ile Asp Val Leu Ala
65     70     75
Arg Val Pro Ala Pro Arg Ile Leu Val Val Gly Asp Met Gly Glu Val
85     90     95
Gly Ala Gln Gly Lys Glu Phe His Glu Glu Ile Gly Ala Tyr Ala His
100    105    110
Thr Arg

```

<210> 1491  
 <211> 333  
 <212> DNA  
 <213> Homo sapiens

<400> 1491  
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 60  
 atgggggtag attacctttc ttcccagctc gactgggctg gatatcaggt gtccaccaca  
 120  
 tgggggtcag gtccactcc caaaggagta gccatcaccc acgagtcggc ggtcaatacg  
 180  
 attgtcgatg tcaacgaacg cctcggggtg actccgaccg accggatatt ggggatttca  
 240  
 gagctaaact tcgatctatc ggtatacgac atcttcggga tggtcgcgcg ggggtgctacc  
 300  
 ttgggtgttc catctccagc agacaaacgt gat  
 333

<210> 1492  
 <211> 91  
 <212> PRT  
 <213> Homo sapiens

<400> 1492  
 Met Gly Val Asp Tyr Leu Ser Ser Gln Leu Asp Trp Ala Gly Tyr Gln  
 1 5 10 15  
 Val Ser Thr Thr Trp Gly Ser Gly Pro Thr Pro Lys Gly Val Ala Ile  
 20 25 30  
 Thr His Glu Ser Ala Val Asn Thr Ile Val Asp Val Asn Glu Arg Leu  
 35 40 45  
 Gly Val Thr Pro Thr Asp Arg Ile Leu Gly Ile Ser Glu Leu Asn Phe  
 50 55 60  
 Asp Leu Ser Val Tyr Asp Ile Phe Gly Met Phe Ala Arg Gly Ala Thr  
 65 70 75 80  
 Leu Val Leu Pro Ser Pro Ala Asp Lys Arg Asp  
 85 90

<210> 1493  
 <211> 1316  
 <212> DNA  
 <213> Homo sapiens

<400> 1493  
 nggtaccagg gcaaagaagg ctgggcccc gcctcctacc taaagaagaa cagtggggag  
 60  
 cccttgcccc cgaagccagg ccctggctca ccctcccacc cgggtgcct tgacttgga  
 120  
 ggtgtttccc ggcagcagaa cgcggtgggc agggagaagg agctgctcag cagccagagg  
 180  
 gacgggcggt ttgaaggccg ccggtgccc gacggtgacg ccaagcagag atcaccaaag  
 240

atgaggcaga gacccctcc tcgccgggac atgaccattc ctcgaggcct caacctgccg  
 300  
 aagccgcccc tcccgcccc agtgaggagaa gaggattaca ccatcgccga attccagaca  
 360  
 accatcccag acggcatcag cttccaggca ggcctgaagg tcgagggtgat cgagaaaaac  
 420  
 ttgagtggct ggtggtacat tcagattgaa gataaggaag ggtgggcccc ggccaccttc  
 480  
 attgacaagt acaagaagac gagcaacgcg tcgagaccga actttctggc tccctgcccc  
 540  
 cagcagggtga cccagctccg gctgggggaa gcagcagcgc tggagaacaa caggggcagc  
 600  
 gaagccacgg gccctcccg gccctcgct gacgcaccgc atgggtgtcat ggactcgggg  
 660  
 ttgccatggt ctaaagactg gaagggcagt aaggatgtcc tgagggaaggc atcttcagac  
 720  
 atgtctcgct cagcaggcta cgaggagatc tcagaccccc acatggagga gaagccagc  
 780  
 ctccctccgc ggaagaata catcatcaag tcggaggggg agctgtctga ggggagcgg  
 840  
 gagcggcaga ggacggagca gctcgggggc cccactccca agcctccggg cgtgattttg  
 900  
 ccgatgatgc cagccaaaca catccctcca gcccgggaca gcaggaggcc agagcccaaa  
 960  
 cctgacaaaa gcagactgtt ccagctgaaa aatgacatgg ggctggagtg tggccacaa  
 1020  
 gtcttgccca aggaagtga gaagcccaac ctccggccca tctccaaatc caaaactgac  
 1080  
 ctgccagagg agaagccaga tgccactccc cagaatccct tcttgaagtc cagacctcag  
 1140  
 gttaggccaa aaccagctcc ttcccccaaa acggagccac ctcaggcgga agaccaagt  
 1200  
 gacatctgca acctcaggag taagctcagg cctgccaagt cccaagacaa gtccttgtt  
 1260  
 gatggggagg gcccccaggc agtagggggc caagacgtgg ccttcagccg aagcct  
 1316

&lt;210&gt; 1494

&lt;211&gt; 438

&lt;212&gt; PRT

&lt;213&gt; Homo sapiens

&lt;400&gt; 1494

Xaa	Tyr	Gln	Gly	Lys	Glu	Gly	Trp	Ala	Pro	Ala	Ser	Tyr	Leu	Lys	Lys
1				5					10					15	
Asn	Ser	Gly	Glu	Pro	Leu	Pro	Pro	Lys	Pro	Gly	Pro	Gly	Ser	Pro	Ser
			20					25					30		
His	Pro	Gly	Ala	Leu	Asp	Leu	Asp	Gly	Val	Ser	Arg	Gln	Gln	Asn	Ala
			35					40				45			
Val	Gly	Arg	Glu	Lys	Glu	Leu	Leu	Ser	Ser	Gln	Arg	Asp	Gly	Arg	Phe
			50					55			60				
Glu	Gly	Arg	Pro	Val	Pro	Asp	Gly	Asp	Ala	Lys	Gln	Arg	Ser	Pro	Lys
65					70					75				80	
Met	Arg	Gln	Arg	Pro	Pro	Pro	Arg	Arg	Asp	Met	Thr	Ile	Pro	Arg	Gly

[illegible]

&lt;210&gt; 1495

<211> 329

<212> DNA

<213> Homo sapiens

<400> 1495

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60

ctggaggctg caaggaggat ggcccccatc acggcggacc tacatgctgg gagtcggga  
 120  
 gagggcaggc cgcggacatg gggcatgtgg cgatgtgttt caccacccac tcccgctga  
 180  
 agtgccactg tgagcccaac ccacgggtgcc aggtgggct gcactccagg ctccctgcagc  
 240  
 agacccacct cctcagcctc cttccctga aggtgggca tggctggac aaaggggtgc  
 300  
 ctctctgtgt gtgccatgt gacgtggca  
 329

<210> 1496

<211> 105

<212> PRT

<213> Homo sapiens

<400> 1496

Met Ala Gln Gln Arg Arg Thr Pro Phe Val Gln Ala Met Pro Ser Leu  
 1 5 10 15  
 Gln Gly Lys Glu Ala Glu Glu Val Gly Leu Leu Gln Glu Pro Gly Val  
 20 25 30  
 Gln Pro Ser Leu Ala Pro Trp Val Gly Leu Thr Val Ala Leu Gln Ala  
 35 40 45  
 Gly Val Gly Gly Glu Thr His Arg His Met Pro His Val Arg Gly Leu  
 50 55 60  
 Pro Ser Pro Gly Leu Pro Ala Cys Arg Ser Ala Val Met Gly Ala Ile  
 65 70 75 80  
 Leu Leu Ala Ala Ser Arg Arg Lys Gln Ser Thr Ala Leu Met Glu Asp  
 85 90 95  
 Glu Val Ala Pro Leu Arg Asp Arg Asp  
 100 105

<210> 1497

<211> 345

<212> DNA

<213> Homo sapiens

<400> 1497

naactcttg cactcactca ggcgacgggt tggcggccga cttggaagcc gctgcagcac  
 60  
 ttgacgcggg gcatctcga agcgttcgggt cttggcctga cggtcgatgg ctgcggcggtg  
 120  
 ccgttgatcg cgcgaatcg acgggtgggg caggggcgtgc ggccgacacc accgcaagaa  
 180  
 cgcaactcac ggcagatgaa tctgttttga aacgcaagga agggtaatga caggcaccga  
 240  
 caagaagcgg atccccgagc tgctgcgtgt tgagctcact gaacttaccg gcccgatcga  
 300  
 gcagccttac gcgccgatg cacgtcattc ttctggggcca cgcgt  
 345

<210> 1498

<211> 104

<212> PRT

&lt;213&gt; Homo sapiens

&lt;400&gt; 1498

```

Met Thr Cys Ile Gly Arg Val Arg Leu Leu Asp Arg Ala Gly Lys Phe
 1             5             10             15
Ser Glu Leu Asn Thr Gln Gln Leu Arg Asp Pro Leu Leu Val Gly Ala
      20             25             30
Cys His Tyr Pro Ser Leu Arg Phe Lys Thr Asp Ser Ser Ala Val Ser
      35             40             45
Cys Val Leu Ala Val Val Ser Ala Ala Arg Pro Ala Pro Pro Val Ala
      50             55             60
Phe Ala Arg Ser Thr Ala Arg Arg Ser His Arg Pro Ser Gly Gln Asp
65             70             75             80
Arg Thr Leu Arg Asp Arg Pro Ala Ser Ser Ala Ala Ala Ala Ser Lys
      85             90             95
Ser Ala Ala Asn Arg Ala Pro Glu
100

```

&lt;210&gt; 1499

&lt;211&gt; 402

&lt;212&gt; DNA

&lt;213&gt; Homo sapiens

&lt;400&gt; 1499

```

aaatatattc tgccagagtt tgaacacgac accatgctct ggcatttggg catgtcgggg
60
agtttccgct tatgcgagag caatgaagaa ttacgcaaac atgaccatct aatcattcag
120
tttgaagata tcgaactgcg ttatcatgat cctcgccggt ttggttgcat tctttggctg
180
gatgcacaat cacaaagcaa attaatagat acgctggggc cagaaccctt aagcgagAAC
240
tttaatgcgg agtatttatt tgaaaaattg aagaataaaa aggttggcac caaagttgca
300
attatggata accatgtggt ggtgggCGTA ggcaatattt atgcgaccga aagtctgttt
360
aatctgggga ttcattccag acaaccggcc tcgactttaa gc
402

```

&lt;210&gt; 1500

&lt;211&gt; 134

&lt;212&gt; PRT

&lt;213&gt; Homo sapiens

&lt;400&gt; 1500

```

Lys Tyr Ile Leu Pro Glu Phe Glu His Asp Thr Met Leu Trp His Leu
 1             5             10             15
Gly Met Ser Gly Ser Phe Arg Leu Cys Glu Ser Asn Glu Glu Leu Arg
      20             25             30
Lys His Asp His Leu Ile Ile Gln Phe Glu Asp Ile Glu Leu Arg Tyr
      35             40             45
His Asp Pro Arg Arg Phe Gly Cys Ile Leu Trp Leu Asp Ala Gln Ser
      50             55             60
Gln Ser Lys Leu Ile Asp Thr Leu Gly Pro Glu Pro Leu Ser Glu Asn

```

```

65          70          75          80
Phe Asn Ala Glu Tyr Leu Phe Glu Lys Leu Lys Asn Lys Lys Val Gly
      85          90          95
Thr Lys Val Ala Ile Met Asp Asn His Val Val Val Gly Val Gly Asn
      100         105         110
Ile Tyr Ala Thr Glu Ser Leu Phe Asn Leu Gly Ile His Pro Ala Gln
      115         120         125
Pro Ala Ser Thr Leu Ser
      130

```

```

<210> 1501
<211> 362
<212> DNA
<213> Homo sapiens

```

```

<400> 1501
nnacgcggtgc atgctgcagg catcatccat cgcgatctga agccccaaaa catcttctctg
60
gtgccgagcgc gcgcgcgagcg cgacttctgtg aagatcttctg acttcggcgc atgccagatg
120
gtcacaccga aggtatcgaa cgcgctgccc gagctgaaga cgagcgcggg aaatctcttc
180
ggcacgggtgc cgtacatggc gccggagtgc ttcgaggacg gctcgaccgc gctggatgcg
240
cgcgcgggaca tctactccac gggcatcatc atgtaccgct gcgtgacggg gacgctcccc
300
ttcaaggcga acaccgtctt cgagatgctc atccatctgc gcgagggccg cccatcaagc
360
tt
362

```

```

<210> 1502
<211> 120
<212> PRT
<213> Homo sapiens

```

```

<400> 1502
Xaa Arg Val His Ala Ala Gly Ile Ile His Arg Asp Leu Lys Pro Gln
1          5          10          15
Asn Ile Phe Leu Val Pro Ser Ala Arg Glu Arg Asp Phe Val Lys Ile
      20          25          30
Phe Asp Phe Gly Ala Cys Gln Met Val Thr Pro Lys Val Ser Asn Gly
      35          40          45
Val Pro Glu Leu Lys Thr Ser Ala Gly Asn Leu Phe Gly Thr Val Pro
      50          55          60
Tyr Met Ala Pro Glu Cys Phe Glu Asp Gly Ser His Arg Leu Asp Ala
65          70          75          80
Arg Ala Asp Ile Tyr Ser Thr Gly Ile Ile Met Tyr Arg Cys Val Thr
      85          90          95
Gly Thr Leu Pro Phe Lys Ala Asn Thr Val Phe Glu Met Leu Ile His
      100         105         110
Leu Arg Glu Gly Arg Pro Ser Ser
      115         120

```

<210> 1503  
 <211> 623  
 <212> DNA  
 <213> Homo sapiens

<400> 1503  
 gccggcggtga ggcagagaaa cgtcctcgcc ctgtcattcc accctgaaga gactgacgac  
 60  
 gaccgggtac accgcacctg gttgcgccag gtgtctgagg aggtctgaca gttaccgcaa  
 120  
 gggctcatga cgacctctcc tgaacactgt tcaaagggcg acggcttacc attcctcgct  
 180  
 gtgagtcctg aacagcagct tctcgaatat gaccgacgtc atgtctggga ccctacgccc  
 240  
 ccgacgatcg gggcagaccc aatgcttgca gtgacggctg ccaacggagt ctggctgcag  
 300  
 ctgcatgatg gggaaacacc ccacgaggtc atcgatgcga tggcctcggt gtgggtgccag  
 360  
 attcacgggt accgaaaccc ggtcctcgac gaggcctca accgtcaaag ctcccagttc  
 420  
 agtcacgtca tggttgccgg actcaccat aaggccgctg ttgacgccgt catatcccta  
 480  
 gtgcgcctgg ccccggggcc cctcgaccgg atcttccttg ctgattccgg gtctgtcggc  
 540  
 gtcgagggtg gtctcaaat ggctcgtagc gtgcaaatcg ctgcgaccgc agcgcgcggg  
 600  
 ggcactttga cgaggacacg cgt  
 623

<210> 1504  
 <211> 165  
 <212> PRT  
 <213> Homo sapiens

<400> 1504  
 Met Thr Thr Pro Pro Glu His Cys Ser Lys Gly Asp Gly Leu Pro Phe  
 1 5 10 15  
 Leu Ala Val Ser Pro Glu Gln Gln Leu Glu Tyr Asp Arg Arg His  
 20 25 30  
 Val Trp His Pro Tyr Ala Pro Thr Ile Gly Ala Asp Pro Met Leu Ala  
 35 40 45  
 Val Thr Ala Ala Asn Gly Val Trp Leu Gln Leu His Asp Gly Glu His  
 50 55 60  
 Arg His Glu Val Ile Asp Ala Met Ala Ser Trp Trp Cys Gln Ile His  
 65 70 75 80  
 Gly Tyr Arg Asn Pro Val Leu Asp Glu Ala Leu Asn Arg Gln Ser Ser  
 85 90 95  
 Gln Phe Ser His Val Met Phe Gly Gly Leu Thr His Lys Ala Ala Val  
 100 105 110  
 Asp Ala Val Ile Ser Leu Val Arg Leu Ala Pro Gly Pro Leu Asp Arg  
 115 120 125  
 Ile Phe Leu Ala Asp Ser Gly Ser Val Gly Val Glu Val Ser Leu Lys  
 130 135 140  
 Leu Ala Arg Gln Val Gln Ile Ala Arg Thr Ala Ala Arg Gly Gly Thr

```

150
Leu Thr Arg Thr Arg
165

<210> 1505
<211> 556
<212> DNA
<213> Homo sapiens

<400> 1505
nngcgcgcgc gtcacctcaac accaccctga cttcgaaata tctggagaat gtctacgttg
60
gtttcaatcg gtttgcgcaa cagatggcca ggatggcccg cgctcggcgc aaactggact
120
acggggggccc cgaaaactcg tgacggcgact aaaccttctt cccccggcgc aaccaccttg
180
gcttcncnga tgacgaagct cagcggggga gctcagcggt tgtcagctaa cggcggcaag
240
ctcaccgcag gtgtctccca gctctccgga gggctcacia cttgtctca caagggccag
300
cagctcagcc aagggggcca tgggctggcc agcggggtgg cgacctacac cgatggcacg
360
gggaaggtcg tcgacggcat cgggcagctg tcggctggtt tgacgacgat ggaatgagaag
420
atcgcgtcgg ctaccgggaa aatcgatccc tcccagctcg acaaaactcg cgggtggggcc
480
ggacagcttg ctgatggcat cgaccagttc accggcaatc tggtggggta tcgtactgag
540
atccgccagt acgcgt
556

<210> 1506
<211> 169
<212> PRT
<213> Homo sapiens

<400> 1506
Met Ser Thr Leu Val Ser Ile Gly Leu Pro Asn Arg Trp Pro Gly Trp
1 5 10 15
Pro Ala Pro Arg Arg Asn Trp Thr Thr Gly Ala Pro Lys Leu Ala Asp
20 25 30
Gly Thr Lys Pro Ser Ser Pro Gly Ala Thr Thr Leu Ala Ser Xaa Met
35 40 45
Thr Lys Leu Ser Gly Gly Ala Gln Arg Leu Ser Ala Asn Gly Gly Lys
50 55 60
Leu Thr Asp Gly Val Ser Gln Leu Ser Gly Gly Leu Thr Thr Leu Ser
65 70 75 80
His Lys Gly Gln Gln Leu Ser Gln Gly Ala Asp Gly Leu Ala Ser Gly
85 90 95
Val Ala Thr Tyr Thr Asp Gly Thr Gly Lys Val Val Asp Gly Ile Gly
100 105 110
Gln Leu Ser Ala Gly Leu Thr Thr Met Asp Glu Lys Ile Ala Ala Ala
115 120 125
Thr Gly Lys Ile Asp Pro Ser Gln Leu Asp Lys Leu Ala Gly Gly Ala

```

```

      130                      135                      140
Gly Gln Leu Ala Asp Gly Ile Asp Gln Phe Thr Gly Asn Leu Val Gly
145                      150                      155                      160
Tyr Arg Thr Glu Ile Arg Gln Tyr Ala
      165

```

&lt;210&gt; 1507

&lt;211&gt; 667

&lt;212&gt; DNA

&lt;213&gt; Homo sapiens

&lt;400&gt; 1507

```

agatctctta agatgtgctc attatcatga gaacagcgtg gaggaaccca cccccaggat
60
ccagttacct ccacttgctc tgcccttggc acgtggggct tatggggatt acaattcaag
120
gtgagacttg ggtggggaca cagtgaaca tgaagtgtgc cagcgtgggt ggatgacgcc
180
ctctcctccc cgccaccgag agctgcaggc cacatgattc cttttgggta gcactcggga
240
aagggcagaa tgtacaggaa cagagtgaaga ttcgcagggc ctggggctga gggagggggac
300
gcactagagg aaggcaagg ggagcctcct ggggtgtggg agcactttct gtcttggttt
360
tggttggtgc tgcacagtgg cccacacccg tcagagctca cctgcctgca cccaggccct
420
ccgtgcaccc tggcagccca gatgactgca ccagcccagg ggaggtggag gaatgccaca
480
cgcacccgga cctggggacc ggggggtcctc ggtgatcatc ccgagctcca agacagaagc
540
tggactacag ccgtgctgag tggagggggt tgggtggctgg gtgccgcct cctattgctc
600
ctgcagactc tgggggtctcg ggcgccccca gtggggcaat gtgggtgct gcagggaaat
660
cacgcgt
667

```

&lt;210&gt; 1508

&lt;211&gt; 139

&lt;212&gt; PRT

&lt;213&gt; Homo sapiens

&lt;400&gt; 1508

```

Met Tyr Arg Asn Arg Val Arg Phe Ala Gly Pro Gly Ala Glu Gly Gly
1      5      10      15
Asp Ala Leu Glu Glu Gly Lys Gly Glu Pro Pro Gly Cys Gly Glu His
20      25      30
Phe Leu Ser Trp Phe Trp Trp Trp Leu His Ser Gly Pro His Pro Ser
35      40      45
Glu Leu Thr Cys Leu His Pro Gly Pro Pro Cys Thr Leu Ala Ala Gln
50      55      60
Met Thr Ala Pro Ala Gln Gly Arg Trp Arg Asn Ala Thr Arg Thr Gly
65      70      75      80
Thr Trp Gly Pro Gly Val Leu Gly Asp His Pro Glu Leu Gln Asp Arg

```

```

      85              90              95
Ser Trp Thr Thr Ala Val Leu Ser Gly Gly Val Trp Trp Leu Gly Ala
      100              105              110
Arg Leu Leu Leu Leu Gln Thr Leu Gly Ser Arg Ala Pro Pro Val
      115              120              125
Gly Gln Cys Gly Leu Leu Gln Gly Thr His Ala
      130              135

```

&lt;210&gt; 1509

&lt;211&gt; 463

&lt;212&gt; DNA

&lt;213&gt; Homo sapiens

&lt;400&gt; 1509

```

tgatcagagt ggctgagcaa cttgctcaag atcacagttt cagaagtacg ctctaagctg
60
ggctctggctg actccaaagt tgtgggtttt gttgggtttt ttgttctgtc gcgttttaga
120
aagggtctagg aaccgagcac tgggcgttgg gcttactctc ctctatgtgt gacctgggag
180
tggtgcccaa ggcgctctct tcccagcacc tcagggtcct cactggtaaa ggagggagtg
240
attggaatgt cgccaaagt acttggtctct ggaattctgt ggctattcac gtggactctg
300
gatggcggtc accaagtaga agagggggccc tgggatagag agaagtctcc tctcctgctc
360
ctgatttccc aggcctctcc ctctcctggc cctccctcct ttcttccact tccccggatt
420
cccttcgagt ttggttgcaa ctttaatttt nngttcogat tca
463

```

&lt;210&gt; 1510

&lt;211&gt; 99

&lt;212&gt; PRT

&lt;213&gt; Homo sapiens

&lt;400&gt; 1510

```

Met Val Thr Trp Glu Trp Cys Pro Arg Ser Leu Pro Ser Thr Ser
1      5      10      15
Gly Ser Ser Leu Val Lys Glu Gly Val Ile Gly Met Ser Pro Lys Leu
20      25      30
Leu Gly Ser Gly Ile Leu Trp Leu Phe Thr Trp Thr Leu Asp Gly Gly
35      40      45
His Gln Val Glu Glu Gly Pro Trp Asp Arg Glu Lys Ser Pro Leu Leu
50      55      60
Leu Leu Ile Ser Gln Ala Ser Pro Ser Pro Gly Pro Pro Ser Phe Leu
65      70      75      80
Pro Leu Pro Arg Ile Pro Phe Glu Phe Gly Cys Asn Phe Asn Phe Xaa
85      90      95
Phe Arg Phe

```

&lt;210&gt; 1511

&lt;211&gt; 633

&lt;212&gt; DNA

&lt;213&gt; Homo sapiens

&lt;400&gt; 1511

gcccggcaccg gcgtcaaggc catggcgctg gggccgggat ggggtacacac cgaattccac  
 60  
 tcacgcgcga acgtcaccgg caaccatctg cgggactttt tctggatcga cgccgaagtt  
 120  
 ctggtacgcg aggtctctca cgaacctgac catgacaagg tagtatccat tcttaccgcc  
 180  
 ctctggaagt tcttcatcgc agtggccaca catacccccac gttccgctat gagattcctg  
 240  
 tcacgaactc tgtcctcgtc tcgagacaag gacgaccatc ctcgacacac tccgggaggc  
 300  
 gaggcctgag atggccagcg tcaaaccac taaggaccgg ggccggtaca ccaatgatct  
 360  
 gtccgccgcg acgcggcagg cagcgaacat gcttctgctg cgctcctttg tgtggaaagt  
 420  
 cgtaaaagtg agcgtccacg gagccgacaa cctcgacggg ctcgacgggt ccttacgctg  
 480  
 ccgtcgctaa ccattctctc cacctcgacg cgccgctcgt ttttggggcc cttccaagc  
 540  
 ggctgtcaaa gtacctagct accggggcgg ctgctgacta tttcttcacc gtctggtgga  
 600  
 aggccatcgc tccggtgctc ttcttcaacg cgt  
 633

&lt;210&gt; 1512

&lt;211&gt; 102

&lt;212&gt; PRT

&lt;213&gt; Homo sapiens

&lt;400&gt; 1512

Ala Gly Thr Gly Val Lys Ala Met Ala Leu Gly Pro Gly Trp Val His  
 1 5 10 15  
 Thr Glu Phe His Ser Arg Ala Asn Val Thr Gly Asn His Leu Pro Asp  
 20 25 30  
 Phe Phe Trp Ile Asp Ala Glu Val Leu Val Arg Glu Ala Leu Asn Asp  
 35 40 45  
 Leu Asp His Asp Lys Val Val Ser Ile Pro Thr Pro Leu Trp Lys Phe  
 50 55 60  
 Phe Ile Ala Val Ala Thr His Thr Pro Arg Ser Ala Met Arg Phe Leu  
 65 70 75 80  
 Ser Arg Thr Leu Ser Ser Ser Arg Asp Lys Asp Asp His Pro Arg His  
 85 90 95  
 Thr Pro Gly Gly Glu Ala  
 100

&lt;210&gt; 1513

&lt;211&gt; 401

&lt;212&gt; DNA

&lt;213&gt; Homo sapiens

&lt;400&gt; 1513

acgcgtgaag ggggtgaatt tcaccacaga ggggacgccg gggttcctgt tcagaaatat  
 60  
 ttggtcgtcc aatctcgtaa tgccttctcg aatgacttgc tgggctgtcc tcctgacacg  
 120  
 gctgtttcgc aggaaccgcc actcccgctc cttgcggatc tgactctcca ggctgtgtcc  
 180  
 ttctgggatc ttcatgacgg gctgggtaaa atagccgggc gtcacagtgc cagaaccccg  
 240  
 tctgcaccgt ggcggagatg aaacttttgt gtccagcagc atcgctccgc tcgtcccgag  
 300  
 tctgctctgg gcccttctgc aacatcttcc gtgtccgggg gaactgggtg gagtgagggg  
 360  
 tgtactgcgc cccagcgggg cctgtggtgc ccggccggcc g  
 401

<210> 1514

<211> 108

<212> PRT

<213> Homo sapiens

<400> 1514

Met	Phe	Asp	Lys	Gly	Pro	Glu	Gln	Thr	Ala	Asp	Asp	Ala	Asp	Asp	Ala
1			5					10				15			
Ala	Gly	His	Lys	Ser	Phe	Ile	Ser	Ala	Thr	Val	Gln	Thr	Gly	Phe	Cys
			20				25				30				
Asp	Trp	Ser	Ala	Arg	Leu	Phe	Tyr	Pro	Ala	Arg	His	Glu	Asp	Pro	Arg
		35				40					45				
Arg	Ala	Arg	Pro	Gly	Glu	Ser	Asp	Pro	Gln	Gly	Ala	Gly	Val	Ala	Val
	50				55						60				
Pro	Ala	Lys	Gln	Pro	Cys	Gln	Glu	Ala	Gly	Pro	Ala	Ser	His	Ser	Glu
65			70					75						80	
Gly	His	Tyr	Glu	Ile	Gly	Arg	Pro	Asn	Ile	Ser	Glu	Gln	Glu	Pro	Arg
			85					90						95	
Arg	Pro	Leu	Cys	Gly	Glu	Ile	Pro	Pro	Leu	His	Ala				
		100					105								

<210> 1515

<211> 720

<212> DNA

<213> Homo sapiens

<400> 1515

nnggatcctg accgcggcat gaggttcaac cctgccaaagc tattgtctga cccttatgcc  
 60  
 agggccatca cggcaggagt cgattatcac ggcccgatta tggaccacac gccggaatcc  
 120  
 aactacgagc ctgacctgac cgacgatgcg acgtcgggtc cgtctgccgt cgtcattgac  
 180  
 gatcccgccc cgctacgcc tattgcgcgc cgccacgaca tcagcgaatc gggcatctat  
 240  
 gagaccatg tcaaaaggct aaccgcgctt caccctctcg ttcttgagca tcttcgcagc  
 300  
 acctatgcgc ggcttgccca tccggtgtgt atcgaaacacc tcaagtcaat cggagtaaca  
 360

gccatcgaac tactaccgct ccagcagttc gtctccgaac cattcatcgt tgggcgcggc  
 420  
 ttatccgatt actgggggta caacaccctg ggggtctttg cgcgcgatgc tgcctactgc  
 480  
 tccgtcggct cgatgggaac ccaggtgcgc gagttcaagg acatggtgac gtctttccac  
 540  
 gaagccggca tcgaggtttt cctcgatgtc gtctacaacc acactgggtga gggcgcccat  
 600  
 gaaggaccga ctctgtcttt ccgcggcate gatcacgagt cttattaccg cctcaccaac  
 660  
 gatcaccgca atgactatga cgtcaccggt tgtggcaatt ctgtcgacac ctcccatccg  
 720

&lt;210&gt; 1516

&lt;211&gt; 240

&lt;212&gt; PRT

&lt;213&gt; Homo sapiens

&lt;400&gt; 1516

Xaa	Asp	Pro	Asp	Arg	Gly	Met	Arg	Phe	Asn	Pro	Ala	Lys	Leu	Leu	Leu
1			5					10					15		
Asp	Pro	Tyr	Ala	Arg	Ala	Ile	Thr	Ala	Gly	Val	Asp	Tyr	His	Gly	Pro
		20					25					30			
Ile	Met	Asp	His	Thr	Pro	Glu	Ser	Asn	Tyr	Glu	Pro	Asp	Leu	Thr	Asp
		35				40				45					
Asp	Ala	Thr	Ser	Val	Pro	Leu	Ala	Val	Val	Ile	Asp	Asp	Pro	Gly	Pro
	50					55				60					
Pro	Thr	Pro	Ile	Ala	Arg	Arg	His	Asp	Ile	Ser	Glu	Ser	Gly	Ile	Tyr
	65			70				75						80	
Glu	Thr	His	Val	Lys	Gly	Leu	Thr	Arg	Leu	His	Pro	Leu	Val	Pro	Glu
			85					90					95		
His	Leu	Arg	Ser	Thr	Tyr	Ala	Gly	Leu	Ala	Tyr	Pro	Ala	Val	Ile	Glu
			100				105						110		
His	Leu	Lys	Ser	Ile	Gly	Val	Thr	Ala	Ile	Glu	Leu	Leu	Pro	Val	Gln
		115					120					125			
Gln	Phe	Val	Ser	Glu	Pro	Phe	Ile	Val	Gly	Arg	Gly	Leu	Ser	Asp	Tyr
	130					135				140					
Trp	Gly	Tyr	Asn	Thr	Leu	Gly	Phe	Phe	Ala	Pro	His	Ala	Ala	Tyr	Cys
	145			150					155					160	
Ser	Val	Gly	Ser	Met	Gly	Thr	Gln	Val	Arg	Glu	Phe	Lys	Asp	Met	Val
			165					170					175		
Thr	Ser	Phe	His	Glu	Ala	Gly	Ile	Glu	Val	Phe	Leu	Asp	Val	Val	Tyr
			180					185					190		
Asn	His	Thr	Gly	Glu	Gly	Gly	His	Glu	Gly	Pro	Thr	Leu	Ser	Phe	Arg
		195				200						205			
Gly	Ile	Asp	His	Glu	Ser	Tyr	Arg	Leu	Thr	Asn	Asp	His	Arg	Asn	
	210					215				220					
Asp	Tyr	Asp	Val	Thr	Gly	Cys	Gly	Asn	Ser	Val	Asp	Thr	Ser	His	Pro
	225				230					235					240

&lt;210&gt; 1517

&lt;211&gt; 497

&lt;212&gt; DNA

&lt;213&gt; Homo sapiens

```

<400> 1517
nnacgcgtga aggggggttcg ggaggaggac gccctgctgg agaaggggag ccagagcaac
60
gaaagtgcag acgtcagcac agaccgtggc cctgcgccac cttccccgct caaggagacc
120
tccttttcca tcggggtgca agtactgttt ccattcctcc tggcaggctt tgggaccgtg
180
gctgctggca tgggtgttga catcgtgcag cactgggaag tcttccagaa ggtgacagag
240
gtcttcaccc tagtgctgc gctgctgggg ctcaaagga acctggaat gaccctggca
300
tcaaggcttt ccaactgcagc caacattgga cacatggaca cacccaagga gctctggcgg
360
atgatcactg ggaacatggc cctcatccag gtgcaggccc cggtggtggg cttcctgggc
420
tccatcgcag ccgtcgtcct tggctgggac cctgatggcc acttcagtat tccgcacggc
480
ttcctgctct gtggtag
497

```

```

<210> 1518
<211> 165
<212> PRT
<213> Homo sapiens

```

```

<400> 1518
Xaa Arg Val Lys Gly Val Arg Glu Glu Asp Ala Leu Leu Glu Asn Gly
1 5 10 15
Ser Gln Ser Asn Glu Ser Asp Asp Val Ser Thr Asp Arg Gly Pro Ala
20 25 30
Pro Pro Ser Pro Leu Lys Glu Thr Ser Phe Ser Ile Gly Leu Gln Val
35 40 45
Leu Phe Pro Phe Leu Leu Ala Gly Phe Gly Thr Val Ala Ala Gly Met
50 55 60
Val Leu Asp Ile Val Gln His Trp Glu Val Phe Gln Lys Val Thr Glu
65 70 75 80
Val Phe Ile Leu Val Pro Ala Leu Leu Gly Leu Lys Gly Asn Leu Glu
85 90 95
Met Thr Leu Ala Ser Arg Leu Ser Thr Ala Ala Asn Ile Gly His Met
100 105 110
Asp Thr Pro Lys Glu Leu Trp Arg Met Ile Thr Gly Asn Met Ala Leu
115 120 125
Ile Gln Val Gln Ala Pro Val Val Gly Phe Leu Ala Ser Ile Ala Ala
130 135 140
Val Val Phe Gly Trp Ile Pro Asp Gly His Phe Ser Ile Pro His Ala
145 150 155 160
Phe Leu Leu Cys Gly
165

```

```

<210> 1519
<211> 2076
<212> DNA
<213> Homo sapiens

```

<400> 1519  
nnagatcttt gggggattca acgagtggaa aatgcacgat ttctttccacc agaagaaaat  
60  
gtgtgcaatg agatgttggt aaaatcccag tttgttgctt gtatggctac ttgtcattca  
120  
cttacaaaaa ttgaaggagt gctctctggt gatccacttg atctgaaaaa gtttggaggct  
180  
attggatgga ttctggaaga agcaactgaa gaagaaacag cacttcataa togaattatg  
240  
cccacagtgg ttctgtctcc caaacaactg cttctctgaat ctaccctctgc aggaaaccaa  
300  
gaaatggagc tgtttgaact tccagctact tatgagatag gaattgttcg ccagttccca  
360  
ttttcttctg ctttgcaacg tatgagtgtg gttgccaggg tgctggggga taggaaaaatg  
420  
gacgcctaca tgaagggagc gcccgaggcc attgccggtc tctgtaaacc tgaacagtt  
480  
cctgtcgatt ttcaaaacgt tttggaagac ttactaaac agggccttcg tgtgattgct  
540  
cttgcacaca gaaaattgga gtcaaaactg acatggcata aagtacagaa tattagcaga  
600  
gatgcaattg agaacaacat ggattttatg ggattaatta taatgcagaa caaattaaag  
660  
caagaaaccc ctgcagtact tgaagatttg cataaaacca acattcgcac cgtcatggtc  
720  
acaggtgaca gtatgttgac tgctgtctct gtggccagag atttggaat gattctacct  
780  
caggataaag tgattattgc tgaagcatta cctccaaagg atgggaaagt tgccaaaaata  
840  
aattggcatt atgcagactc cctcacgcag tgcagtcac catcagcaat tgaccagag  
900  
gctattccgg ttaaattggt ccatgatagc ttagaggatc ttcaaatgac tcgttatcat  
960  
tttgcaatga atggaaaac attctcagt atactggagc attttcaaga ccttgttcct  
1020  
aagttgatgt tgcattggcac cgtgtttgcc cgtatggcac ctgactcagaa gacacagttg  
1080  
atagaagcat tgcaaaatgt tgattatttt gttgggatgt gtggtgatgg cgcaaatgat  
1140  
tgtggtgctt tgaagagggc acacggaggc atttccttat cggagctcga agcttcagtg  
1200  
gcatctccct ttacctctaa gactcctagt atttcctgtg tgccaaacct tatcagggaa  
1260  
ggccgtgctg ctttaataac ttcttctgtg gtgtttaaat tcatggcatt gtacagcatt  
1320  
atccagtact tcagtgttac tctgctgtat tctatcttaa gtaacctagg agacttccag  
1380  
tttctcttca ttgatctggc aatcattttg gtatgggat ttacaatgag tttaaatcct  
1440  
gcctggaaa aacttgtggc acaaagacca ccttcgggtc ttatatcttg ggcccttctc  
1500  
ttctccgttt tgtctcagat tatcatctgc attggatttc aatctttggg ttttttttgg  
1560

gtcaaacacgc aaccttggtg tgaagtgtgg catccaaaat cagatgcttg taatacaaca  
 1620  
 ggaagcgggt tttggaattc ttcacacgta gacaatgaaa ccgaacttga tgaacataat  
 1680  
 atacaaaatt atgaaaatac cacagtgttt tttatttcca gttttcagta cctcatagtg  
 1740  
 gcaattgcct tttcaaaagg aaaacccttc agggcaacctt gctacaaaaa ttattttttt  
 1800  
 gttttttctg tgattttttt atatattttt atattattca tcatgttgta tccagttgcc  
 1860  
 tctgttgacc aggtttcttc gatagtgtgt gtaccatata agtggcgtgt aactatgctc  
 1920  
 atcattgttc ttgtcaatgc ctttgtgtct atcacagtgg agaacttctt ccttgacatg  
 1980  
 gtcctttgga aagtgtgtgt caaccgagac aaacaaggag agtatcggtt cagcaccaca  
 2040  
 cagccaccgc aggagtcaat ggatcggtgg ggaaaa  
 2076

<210> 1520

<211> 692

<212> PRT

<213> Homo sapiens

<400> 1520

Xaa	Asp	Leu	Trp	Gly	Ile	Gln	Arg	Val	Glu	Asn	Ala	Arg	Phe	Leu	Ser
1				5					10					15	
Pro	Glu	Glu	Asn	Val	Cys	Asn	Glu	Met	Leu	Val	Lys	Ser	Gln	Phe	Val
			20					25					30		
Ala	Cys	Met	Ala	Thr	Cys	His	Ser	Leu	Thr	Lys	Ile	Glu	Gly	Val	Leu
		35					40					45			
Ser	Gly	Asp	Pro	Leu	Asp	Leu	Lys	Met	Phe	Glu	Ala	Ile	Gly	Trp	Ile
		50				55				60					
Leu	Glu	Glu	Ala	Thr	Glu	Glu	Glu	Thr	Ala	Leu	His	Asn	Arg	Ile	Met
65				70					75					80	
Pro	Thr	Val	Val	Arg	Pro	Pro	Lys	Gln	Leu	Pro	Glu	Ser	Thr	Pro	
			85					90					95		
Ala	Gly	Asn	Gln	Glu	Met	Glu	Leu	Phe	Glu	Leu	Pro	Ala	Thr	Tyr	Glu
		100					105					110			
Ile	Gly	Ile	Val	Arg	Gln	Phe	Pro	Phe	Ser	Ser	Ala	Leu	Gln	Arg	Met
		115				120					125				
Ser	Val	Val	Ala	Arg	Val	Leu	Gly	Asp	Arg	Lys	Met	Asp	Ala	Tyr	Met
	130					135					140				
Lys	Gly	Ala	Pro	Glu	Ala	Ile	Ala	Gly	Leu	Cys	Lys	Pro	Glu	Thr	Val
145				150					155					160	
Pro	Val	Asp	Phe	Gln	Asn	Val	Leu	Glu	Asp	Phe	Thr	Lys	Gln	Gly	Phe
				165					170					175	
Arg	Val	Ile	Ala	Leu	Ala	His	Arg	Lys	Leu	Glu	Ser	Lys	Leu	Thr	Trp
		180					185						190		
His	Lys	Val	Gln	Asn	Ile	Ser	Arg	Asp	Ala	Ile	Glu	Asn	Asn	Met	Asp
		195					200					205			
Phe	Met	Gly	Leu	Ile	Ile	Met	Gln	Asn	Lys	Leu	Lys	Gln	Glu	Thr	Pro
	210					215					220				
Ala	Val	Leu	Glu	Asp	Leu	His	Lys	Ala	Asn	Ile	Arg	Thr	Val	Met	Val

225		230		235		240
Thr Gly Asp Ser Met	Leu Thr Ala Val Ser Val Ala Arg Asp Cys Gly					
	245		250			255
Met Ile Leu Pro Gln Asp Lys Val Ile Ile Ala Glu Ala Leu Pro Pro						
	260		265			270
Lys Asp Gly Lys Val Ala Lys Ile Asn Trp His Tyr Ala Asp Ser Leu						
	275		280			285
Thr Gln Cys Ser His Pro Ser Ala Ile Asp Pro Glu Ala Ile Pro Val						
	290		295			300
Lys Leu Val His Asp Ser Leu Glu Asp Leu Gln Met Thr Arg Tyr His						
	305		310			315
Phe Ala Met Asn Gly Lys Ser Phe Ser Val Ile Leu Glu His Phe Gln						
	325		330			335
Asp Leu Val Pro Lys Leu Met Leu His Gly Thr Val Phe Ala Arg Met						
	340		345			350
Ala Pro Asp Gln Lys Thr Gln Leu Ile Glu Ala Leu Gln Asn Val Asp						
	355		360			365
Tyr Phe Val Gly Met Cys Gly Asp Gly Ala Asn Asp Cys Gly Ala Leu						
	370		375			380
Lys Arg Ala His Gly Gly Ile Ser Leu Ser Glu Leu Glu Ala Ser Val						
	385		390			395
Ala Ser Pro Phe Thr Ser Lys Thr Pro Ser Ile Ser Cys Val Pro Asn						
	405		410			415
Leu Ile Arg Glu Gly Arg Ala Ala Leu Ile Thr Ser Phe Cys Val Phe						
	420		425			430
Lys Phe Met Ala Leu Tyr Ser Ile Ile Gln Tyr Phe Ser Val Thr Leu						
	435		440			445
Leu Tyr Ser Ile Leu Ser Asn Leu Gly Asp Phe Gln Phe Leu Phe Ile						
	450		455			460
Asp Leu Ala Ile Ile Leu Val Val Val Phe Thr Met Ser Leu Asn Pro						
	465		470			475
Ala Trp Lys Glu Leu Val Ala Gln Arg Pro Pro Ser Gly Leu Ile Ser						
	485		490			495
Gly Ala Leu Leu Phe Ser Val Leu Ser Gln Ile Ile Ile Cys Ile Gly						
	500		505			510
Phe Gln Ser Leu Gly Phe Phe Trp Val Lys Gln Gln Pro Trp Tyr Glu						
	515		520			525
Val Trp His Pro Lys Ser Asp Ala Cys Asn Thr Thr Gly Ser Gly Phe						
	530		535			540
Trp Asn Ser Ser His Val Asp Asn Glu Thr Glu Leu Asp Glu His Asn						
	545		550			555
Ile Gln Asn Tyr Glu Asn Thr Thr Val Phe Phe Ile Ser Ser Phe Gln						
	565		570			575
Tyr Leu Ile Val Ala Ile Ala Phe Ser Lys Gly Lys Pro Phe Arg Gln						
	580		585			590
Pro Cys Tyr Lys Asn Tyr Phe Phe Val Phe Ser Val Ile Phe Leu Tyr						
	595		600			605
Ile Phe Ile Leu Phe Ile Met Leu Tyr Pro Val Ala Ser Val Asp Gln						
	610		615			620
Val Leu Gln Ile Val Cys Val Pro Tyr Gln Trp Arg Val Thr Met Leu						
	625		630			635
Ile Ile Val Leu Val Asn Ala Phe Val Ser Ile Thr Val Glu Asn Phe						
	645		650			655
Phe Leu Asp Met Val Leu Trp Lys Val Val Phe Asn Arg Asp Lys Gln						

Gly Glu Tyr Arg Phe Ser Thr Thr Gln Pro Pro Gln Glu Ser Val Asp  
660 665 670  
675 680 685  
Arg Trp Gly Lys  
690

```
<210> 1521
<211> 373
<212> DNA
<213> Homo sapiens
```

```

400> 1521
acgcgctcaca gctgaagccc gcagtgatag ccgacgcaca agccgaatca ataactgtg
60
tctgcacgcg ctgggcctca acgagtagtt cagcaaaagt aggcggaaca ggcgcaacga
120
gcgtaccatc cgatacacgc cagccttgac tgctgataca ccccgaccac tgcgcatcag
180
tgatttcaat ggcggttaca cagtctggta tcggactgtc gatatcatcg taataggcga
240
tcacattccc atttgcacgc tatgctgcga acttttgacc catgattatt atttccgaa
300
tgcaaaccaa taaacagtgt tggcgcttga tgaatagccg ttctgcacca cggcggtaga
360
gagtggcgtc gac
373

```

```
<210> 1522
<211> 94
<212> PRT
<213> Homo sapiens
```

```

400> 1522
Met Gly Gln Lys Phe Ala Ala Tyr Asp Ala Asn Gly Asn Val Ile Ala
 1          5          10          15
Tyr Tyr Asp Asp Ile Asp Ser Pro Ile Pro Asp Cys Val Thr Ala Ile
          20          25          30
Glu Ile Thr Asp Ala Gln Trp Leu Gly Cys Ile Ser Ser Gln Gly Trp
          35          40          45
Arg Val Ser Asp Gly Thr Leu Val Ala Pro Val Pro Pro Thr Phe Ala
          50          55          60
Glu Leu Leu Val Glu Ala Gln Arg Val Gln Thr Gln Val Ile Asp Ser
65          70          75          80
Ala Cys Ala Ser Ala Ile Thr Ala Gly Phe Ser Cys Asp Ala
          85          90

```

```
<210> 1523
<211> 525
<212> DNA
<213> Homo sapiens
```

```
<400> 1523
nnacgcgctgc ggtcaatatg ccgccattcc cataagcgct tgggtggcatg ttccagggc
60
```

cagcatggca cggatgccga gaggagacac aaaaaactgc ctctgacagc tcttgctcaa  
 120  
 aatattgcaag aagcatcgac tcagctggaa gactctctcc tggggaagat gctggagagc  
 180  
 tgtggagatg ctgagaatca gctggctctc gagctctccc agcacgaagt ctttgttgag  
 240  
 aaggagatcg tggacctctc gtacggcata gctgaggtgg agattcccaa catccagaag  
 300  
 cagaggaagc agcttgcaag attggtgtta gactgggatt cagtcagagc caggtggaac  
 360  
 caagctcaca aatctcagg aaccaacttt caggggcttc catcaaaaaa agatactcta  
 420  
 aaggaaggga tggatgaagc tggaaataaa gtagaacagt gcaaggatca acttgcagca  
 480  
 gacatgtaca actttatggc caaagaaggg gagtatggca aattt  
 525

&lt;210&gt; 1524

&lt;211&gt; 175

&lt;212&gt; PRT

&lt;213&gt; Homo sapiens

&lt;400&gt; 1524

Xaa	Arg	Val	Arg	Ser	Ile	Cys	Arg	His	Ser	His	Lys	Arg	Leu	Val	Ala
1				5					10				15		
Cys	Phe	Gln	Gly	Gln	His	Gly	Thr	Asp	Ala	Glu	Arg	Arg	His	Lys	Lys
			20					25					30		
Leu	Pro	Leu	Thr	Ala	Leu	Ala	Gln	Asn	Met	Gln	Glu	Ala	Ser	Thr	Gln
		35					40				45				
Leu	Glu	Asp	Ser	Leu	Leu	Gly	Lys	Met	Leu	Glu	Thr	Cys	Gly	Asp	Ala
	50					55				60					
Glu	Asn	Gln	Leu	Ala	Leu	Glu	Leu	Ser	Gln	His	Glu	Val	Phe	Val	Glu
65					70				75					80	
Lys	Glu	Ile	Val	Asp	Pro	Leu	Tyr	Gly	Ile	Ala	Glu	Val	Glu	Ile	Pro
			85					90						95	
Asn	Ile	Gln	Lys	Gln	Arg	Lys	Gln	Leu	Ala	Arg	Leu	Val	Leu	Asp	Trp
			100				105							110	
Asp	Ser	Val	Arg	Ala	Arg	Trp	Asn	Gln	Ala	His	Lys	Ser	Ser	Gly	Thr
		115				120					125				
Asn	Phe	Gln	Gly	Leu	Pro	Ser	Lys	Ile	Asp	Thr	Leu	Lys	Glu	Gly	Met
	130					135				140					
Asp	Glu	Ala	Gly	Asn	Lys	Val	Glu	Gln	Cys	Lys	Asp	Gln	Leu	Ala	Ala
145				150					155					160	
Asp	Met	Tyr	Asn	Phe	Met	Ala	Lys	Glu	Gly	Glu	Tyr	Gly	Lys	Phe	
			165					170						175	

&lt;210&gt; 1525

&lt;211&gt; 294

&lt;212&gt; DNA

&lt;213&gt; Homo sapiens

&lt;400&gt; 1525

gtgcacgagc gcatggatct catccgcaa agcgtggatg cgcgcatataa cgtggactac  
 60

tggtcgggcc tgctcgtgga ctatacctcg cagcacggcg tcgacgtttt ggtcaagggg  
 120  
 ctgcgtttct ccctggacta tgaatatgaa ctgccgatgg cccagatgaa cggcgcttta  
 180  
 tctggcatcg atacggtctt ttgcttacc gatgaaaagt acggctacat cagctcatcg  
 240  
 ctgtgcaaac aggtcgcgca attcggcggt gaggtcaccg ggatgcttcg gatc  
 294

<210> 1526

<211> 98

<212> PRT

<213> Homo sapiens

<400> 1526

Val	His	Glu	Arg	Met	Asp	Leu	Ile	Arg	Gln	Ser	Val	Asp	Ala	Arg	Ile
1				5					10					15	
Asn	Val	Asp	Tyr	Trp	Ser	Gly	Leu	Leu	Val	Asp	Tyr	Thr	Ser	Gln	His
			20					25					30		
Gly	Val	Asp	Val	Leu	Val	Lys	Gly	Leu	Arg	Ser	Ser	Leu	Asp	Tyr	Glu
			35				40					45			
Tyr	Glu	Leu	Pro	Met	Ala	Gln	Met	Asn	Arg	Arg	Leu	Ser	Gly	Ile	Asp
			50			55					60				
Thr	Val	Phe	Leu	Leu	Thr	Asp	Glu	Lys	Tyr	Gly	Tyr	Ile	Ser	Ser	Ser
					70					75				80	
Leu	Cys	Lys	Gln	Val	Ala	Gln	Phe	Gly	Gly	Glu	Val	Thr	Gly	Met	Leu
			85						90					95	

Arg Ile

<210> 1527

<211> 371

<212> DNA

<213> Homo sapiens

<400> 1527

tgtacaaacc cgcctatgag caagtgcata ccaacatgga aatgtctcaag gccggacgca  
 60  
 gcttcaagga atacgccgag atggcctgga agattcccga gcattacaaa aacaaccgct  
 120  
 acttcgcccc ggtgcacggg gttggcatga cggcgagta cccttgggtg gtgcaccgcg  
 180  
 aagacattga cgcgctgggt tacgacgggt tgctcgagga cggcatgacc atctgtgtgg  
 240  
 aaagctacat cggccacgac gacggcggcg aaggcgtgaa gctcgaagaa cagatctaca  
 300  
 tccacgaaca cagcatcgag ttgctctccg attatccgtt cgacccacgc ctgttgccgc  
 360  
 gctgaacgcg t  
 371

<210> 1528

<211> 109

<212> PRT

&lt;213&gt; Homo sapiens

&lt;400&gt; 1528

```

Met Glu Met Leu Lys Ala Gly Arg Ser Phe Lys Glu Tyr Ala Glu Met
 1           5           10           15
Ala Trp Lys Ile Pro Glu His Tyr Lys Asn Arg Tyr Phe Ala Leu
 20           25           30
Val His Gly Val Gly Met Thr Gly Glu Tyr Pro Trp Val Val His Arg
 35           40           45
Glu Asp Ile Asp Ala Leu Gly Tyr Asp Gly Val Phe Glu Ala Gly Met
 50           55           60
Thr Ile Cys Val Glu Ser Tyr Ile Gly His Asp Asp Gly Gly Glu Gly
 65           70           75           80
Val Lys Leu Glu Glu Gln Ile Tyr Ile His Glu His Ser Ile Glu Leu
 85           90           95
Leu Ser Asp Tyr Pro Phe Asp Pro Arg Leu Leu Pro Arg
100           105

```

&lt;210&gt; 1529

&lt;211&gt; 609

&lt;212&gt; DNA

&lt;213&gt; Homo sapiens

&lt;400&gt; 1529

```

naccgctgggt gctcaccctc cgtgtgactc gcgctctgtc cggctcaggg ctgcgccctcc
60
gtgggaacttg cgctctgtcc ggctcagggc tcgccctccg tgggaacttg cgtctgtccg
120
gctcagggct cgcctccgt ggaacttgcg ctctgtccgg ctcagggctc gccctccgtg
180
ggacttgccg tctgtccggc tcagggctcg cctcctgtgg gacttgccgt ctgtccggct
240
cagggctcgc cctccgtggg acttgccgctc tgccggctc agggctcgc ctccgtggga
300
tttgcgtct gtctggctca ggctgcgcag ggcaatggag gaacctcccg agcaggccca
360
gcggctcctt ccaccagcc cccatctccg gcgggccatt tgtgaggccc tctgccactg
420
aggtgcactg ttccaattc ctcattcaca agctctacct tccacgagcc cagagcatga
480
acgcattcgg ccattggtct caccactctg cgaggagcac agcctcttct ccaccgtcca
540
atagcgtgtt ctcctcttcc caggcctcac agaagtctct gtccgcattc tcccagcatt
600
ccattcacg
609

```

&lt;210&gt; 1530

&lt;211&gt; 125

&lt;212&gt; PRT

&lt;213&gt; Homo sapiens

&lt;400&gt; 1530

```

Leu Ala Leu Cys Pro Ala Gln Gly Ser Pro Ser Val Gly Leu Ala Leu

```

1	5	10	15
Cys Pro Ala Gln Gly Ser Pro Ser Val Gly Leu Ala Leu Cys Pro Ala			
	20	25	30
Gln Gly Ser Pro Ser Val Gly Leu Ala Leu Cys Pro Ala Gln Gly Ser			
	35	40	45
Pro Ser Val Gly Leu Ala Leu Cys Pro Ala Gln Gly Ser Pro Ser Val			
	50	55	60
Gly Leu Ala Leu Cys Pro Ala Gln Gly Ser Pro Ser Val Gly Leu Ala			
	65	70	75
Leu Cys Pro Ala Gln Gly Ser Pro Ser Val Gly Phe Ala Leu Cys Leu			
	85	90	95
Ala Gln Ala Ala Gln Gly Asn Gly Gly Thr Ser Arg Ala Gly Pro Ala			
	100	105	110
Ala Pro Ser Thr Gln Pro Pro Ser Pro Ala Gly His Leu			
	115	120	125

&lt;210&gt; 1531

&lt;211&gt; 726

&lt;212&gt; DNA

&lt;213&gt; Homo sapiens

&lt;400&gt; 1531

accggtcgcc ggcttgctga gggtaacctt ctggccacag ttggtgatgg tgataggtcc  
 60  
 agcgttgagc tgggaagccg acgctgaaaa agaagctgac gaggctctgg gggcgcccg  
 120  
 acattcgcca agcatgagga cggggagcat cgagaccgag acagctcgcc gaaggaattt  
 180  
 cggggtggca ggcattggca aactagcttt ctgtgatcgg cgtgcgcggc cgggcaacaa  
 240  
 cagggcgctg tcaggtgggtc ttccgggctcg acttcgtctc cgttcccgcc accttcccg  
 300  
 tgcgcattgc caggtggttc aagtcggggc ggatcagtc taccgctgcg ctcagctccg  
 360  
 gcttttcacc ggattccagc gctgggttgg tcaccagcaa cctgacgcga ggatttttagc  
 420  
 acccccttcg cataccgcta tcacgggcct ccacgacagc ggcaccgatg acgatcgctg  
 480  
 tcaccagcgc cggcgttttc ggcagcttcc acatggggat cagaccatat tgatgcactg  
 540  
 gcatcccttc catacgcgag ccgccgatat ggcccccgag tgaggccctc cagttcgccg  
 600  
 tgacgcctgc cgctctgcgc agcctgccaa cgctttcccg caacctcacc acacgttttc  
 660  
 cggggttcggg gctggcgacg tgagccgtgt cacaagtcca cgagctggct caccgctccg  
 720  
 cgagag  
 726

&lt;210&gt; 1532

&lt;211&gt; 178

&lt;212&gt; PRT

&lt;213&gt; Homo sapiens

&lt;400&gt; 1532

```

Met Val Ile Gly Pro Ala Leu Asp Trp Asp Ala Asp Ala Glu Lys Glu
 1           5           10           15
Ala Asp Glu Ser Leu Gly Ala Pro Ala His Ser Ala Ser Met Arg Thr
          20           25           30
Gly Ser Ile Glu Thr Ala Thr Ala Arg Arg Arg Asn Phe Gly Val Ala
          35           40           45
Gly Met Ala Lys Leu Ala Phe Cys Asp Arg Arg Ala Arg Pro Gly Asn
          50           55           60
Asn Arg Ala Ser Ser Gly Gly Leu Arg Ala Arg Leu Arg Leu Arg Ser
65          70          75          80
Arg His Leu Pro Ser Ala His Gly Gln Val Val Gln Val Gly Ala Asp
          85          90          95
Gln Ser Tyr Arg Cys Ala Gln Leu Arg Leu Phe Thr Gly Phe Gln Arg
          100          105          110
Trp Cys Gly His Gln Gln Pro Asp Ala Arg Ile Leu Ala Pro Pro Ser
          115          120          125
His Thr Ala Ile Gln Gly Leu His Asp Ser Gly Thr Asp Asp Asp Arg
          130          135          140
Val His Arg Ala Arg Arg Phe Arg Gln Leu Pro His Gly Asp Gln Thr
          145          150          155          160
Ile Leu Met His Trp Arg Ser Leu His Thr Arg Ala Ala Asp Met Ala
          165          170          175

Pro Glu

```

&lt;210&gt; 1533

&lt;211&gt; 364

&lt;212&gt; DNA

&lt;213&gt; Homo sapiens

&lt;400&gt; 1533

```

natatgctgg togatcatgt gcatcagatc gtccagtggc cggagcgcgg ctggtggcg
60
gagattatc acagcgaacg ggcgaccggc ggtgcgccgc ttaacgtcct gctgacgctg
120
gttaaaatgc acgtcggtc ggcgttgacg gcggtcggtc ttatcgggcga agacagcgat
180
ggcgattaca ttatggcgat gtcgaccag taccacgtca atcggccagc ggtacagcgc
240
accacgtttg cccccacgtc gatgtcgacg gtgatgaccg atccccattg gcagcgcacc
300
ttttccatt cgcctgccgc caatcgctc ctcgatctcc ccgccttga tcgactcgac
360
gcgt
364

```

&lt;210&gt; 1534

&lt;211&gt; 121

&lt;212&gt; PRT

&lt;213&gt; Homo sapiens

&lt;400&gt; 1534

```

Xaa Met Leu Val Asp His Val His Gln Ile Val Gln Trp Pro Glu Arg

```

```

      1           5           10           15
Gly Trp Leu Ala Glu Ile Ile His Ser Glu Arg Ala Thr Gly Gly Ala
      20           25           30
Pro Leu Asn Val Leu Leu Thr Leu Val Lys Met His Val Gly Leu Pro
      35           40           45
Leu Gln Ala Val Gly Leu Ile Gly Glu Asp Ser Asp Gly Asp Tyr Ile
      50           55           60
Met Ala Met Leu Asp Gln Tyr His Val Asn Arg Gln Arg Val Gln Arg
      65           70           75           80
Thr Thr Phe Ala Pro Thr Ser Met Ser Gln Val Met Thr Asp Pro Thr
      85           90           95
Gly Gln Arg Thr Phe Phe His Ser Pro Ala Ala Asn Arg Leu Leu Asp
      100           105           110
Leu Pro Ala Phe Asp Arg Leu Asp Ala
      115           120

```

&lt;210&gt; 1535

&lt;211&gt; 369

&lt;212&gt; DNA

&lt;213&gt; Homo sapiens

&lt;400&gt; 1535

```

gaattcgggg ggctccggga atgaagtctt catttcgcaa gccttctgaa gcaaatccgc
60
caatccctcg ggcccgcggt gcgtgccggc cagcgccag tcctggcccg gaatgatcca
120
ctcgatatct tcggcagaca acgccagcag accgggccta tcgcccggc ccatggctgc
180
aaaaaaaaactc ttcacagtct ggacattccc ttgtgtgctc atcgaaatct ctccatgtcc
240
tttacctggg atcgtgtccg atctcatcgg acgcgttgag gacctgctgg tgaggacggg
300
gtgtcggtaga ttcagccgat atcgactttg catggcgatg tcccagctgc cggagccggt
360
actggccac
369

```

&lt;210&gt; 1536

&lt;211&gt; 111

&lt;212&gt; PRT

&lt;213&gt; Homo sapiens

&lt;400&gt; 1536

```

Met Gln Ser Arg Tyr Arg Leu Asn His Arg His Pro Val Leu Thr Ser
      1           5           10           15
Arg Ser Ser Thr Arg Pro Met Arg Ser Asp Thr Ile Pro Gly Lys Gly
      20           25           30
His Gly Glu Ile Ser Met Ser Thr Gln Gly Asn Val Gln Thr Val Lys
      35           40           45
Ser Phe Phe Ala Ala Met Gly Arg Gly Asp Arg Pro Gly Leu Leu Ala
      50           55           60
Leu Ser Ala Glu Asp Ile Glu Trp Ile Ile Pro Gly Gln Asp Trp Pro
      65           70           75           80
Leu Ala Gly Thr His Arg Gly Pro Gln Gly Leu Ala Asp Leu Leu Gln

```

Lys Ala Cys Glu Met Glu Thr Ser Phe Pro Glu Pro Pro Glu Phe  
 100 105 110

```
<210> 1537
<211> 294
<212> DNA
<213> Homo sapiens
```

```
<400> 1537
ccactcgcg cgctcctga gccctctcgt gtgtcaggac gccagcatcc tgttcgtgtt
60
ctcggggctg ctgcacgtgt accagcgga gatcggcagc caggaggaca ctcgcttgtt
120
cttcacgcgc cccggggaga tggtagggca gctggccgtg ctcaccagg agacctcgtc
180
ggcgtggtgg agacactgac ccaccaggcc cgggcgacca cgtgcatgc cgttcgggac
240
tcagaattgg ccaagctgcc ggcaggagcc ctcacgtcca tcaagcgag gtac
294
```

```
<210> 1538
<211> 98
<212> PRT
<213> Homo sapiens
```

```

400> 1538
Pro Leu Ala Ala Pro Pro Glu Pro Ser Arg Val Ser Gly Arg Gln His
1      5      10
Pro Val Arg Val Leu Gly Ala Ala Ala Arg Val Pro Ala Glu Asp Arg
20      25
Gln Pro Gly Gly His Leu Leu Val Pro His Ala Pro Arg Gly Asp Gly
35      40      45
Gly Pro Ala Gly Arg Ala His Arg Gly Asp Leu Val Gly Val Val Glu
50      55      60
Thr Leu Thr His Gln Ala Arg Ala Thr Thr Val His Ala Val Arg Asp
65      70      75      80
Ser Glu Leu Ala Lys Leu Pro Ala Gly Ala Leu Thr Ser Ile Lys Arg
85      90      95
Arg Tyr

```

```
<210> 1539
<211> 1015
<212> DNA
<213> Homo sapiens
```

```
<400> 1539
acgcggttcgg gcgtcaggca cacgcattctc aacagatgtg gctgacaccc aaggcagtcg
60
gcctcagtcg cctgtcaccc acctagaaac tgttcacagc atgtcatccg ggctgctctg
120
gccttgactg gacatgatta ttatctctta cacacgctg ctgctctaca ggccaagaaa
180
```

caggctgctc agccagggtc aggagaaggt gggtcaggct ccccgaggac ctccagccct  
 240  
 gacgcacatcct ggccacacc taggcctcct ctgtcggggc agcctggctc agcagagccc  
 300  
 ggggacacacg gctgaggcca cccaggctgg gccatcttgc cctgttttg tgccccctac  
 360  
 tcagtcttcc ttctgtcctg gctcaggctc aggccagtca agaggggtgc tgagaagcag  
 420  
 gagggagctc agagaccctc cctcgaaag cactggggct tccacctcac aagcggcagg  
 480  
 ttctgttttg gagctgctgg tccatcgccc aggcctggcc aggggcaggc gaggatcctg  
 540  
 gttgccgac catcgtccag gcttgccca ggagccggg aggaacctgg ggtgtgttg  
 600  
 caggggtgc cgtctccagc tctctgccg ggtgagggga ttgtgctgtg tgcacaccac  
 660  
 ctggctgcat cgaatccac catggccag aggggtggacc tgtggctcct tggggggcca  
 720  
 gcatccccc tctaattggg gccctgccca ctctcctgag ttccctgca gagtcccc  
 780  
 caacacctca gccttcacct ttctcagta atcaaaagat tcaaaaaaa gcaaacccat  
 840  
 cagaacggct tcctccaccg agtggttcagg ataaataatc atgtccagtc aagccagag  
 900  
 cagcccgat gatcgtctat gaacagggtt taggtgggtg acagggcact gagcccgact  
 960  
 gccttgggtg tcagccacat ctgttgagat gcgtgtgcct gacgcccga cgcgt  
 1015

<210> 1540

<211> 89

<212> PRT

<213> Homo sapiens

<400> 1540

His	Pro	Arg	Gln	Ser	Ala	Ser	Val	Pro	Cys	His	Pro	Pro	Arg	Thr	Cys
1				5				10					15		
Ser	Gln	His	Val	Ile	Arg	Ala	Ala	Leu	Ala	Leu	Thr	Gly	His	Asp	Tyr
			20				25					30			
Leu	Ser	Leu	His	Thr	Val	Ala	Ala	Leu	Gln	Ala	Lys	Lys	Gln	Ala	Ala
			35				40				45				
Gln	Pro	Gly	Ser	Gly	Glu	Gly	Gly	Ser	Gly	Ser	Pro	Gly	Thr	Ser	Gly
			50			55				60					
Pro	Asp	Ala	Ser	Trp	Pro	His	Pro	Arg	Pro	Pro	Leu	Ser	Gly	Gln	Pro
					70				75					80	
Gly	Ser	Ala	Glu	Pro	Gly	Thr	His	Gly							
					85										

<210> 1541

<211> 1482

<212> DNA

<213> Homo sapiens

<400> 1541

cgccgatcac ggggagcccc tcgactgcct cccagaacaa agtgggaaaag ggaagcttag  
60  
cccgccgctg ccgcctccga gcagcccgcc aggactctgg ctactggaga tgggcccgcg  
120  
gctatcgcg cgacgggtgc cggcggaacc gtccttgcc ctggacgcgc tgcccccgga  
180  
gctgtgtggt caggtgtga gccacgtgcc ggccaacgctc cttggacacg cgatgcgcgc  
240  
cagtgtgcgc cgcctggcgc gacatagtgg acgggcccac tgggaggctg ctgcaactgg  
300  
cccgcgaccg cagcgccgag ggccgagcac tctacgcagt ggctcaacgc tgcctgcccc  
360  
acaacgaaga caaagaggag ttcccgtgtg gcgccctggc gcgctactga ctgcgcgcgc  
420  
ccttcggcgc caatctcatc ttcaactcct gcggagagca gggcttcaga ggctgggagg  
480  
tggagctagg cgggaacggc tgggccatag aaaagaacct aacaccgggt cctggggctc  
540  
cttcgcagac ctgcttcgtg acctctttcg aatgggtgctc caagaggcag cttgtggacc  
600  
tgggtatgga aggggtgtgg caggagctgc tggacagcgc ccagatttag atctgtgtgg  
660  
ctgactgggt gggcgctcga gagaactgcg gctgcgtcta ccagctccgc gtccgccttc  
720  
tggatgtgta tgaaaaggaa gtggtcaagt tctcagctc acctgacctg gtccttcagt  
780  
ggactgagag gggctgccga caggtctccc acgtcttcac caactttggc aagggcatcc  
840  
gctacgtatc ttttgagcag tacgggagag acgtgagttc ctgggtgggg cactatggcg  
900  
cccttgtgac ccactccagt gtgagggta ggatccgtct gtcctagcga ctggactact  
960  
gcctgacgtt gtcagtcaag accagccttg cagccagggt cagtggctca cacctgtggg  
1020  
atccctcccc tttggccttc caaaatgttg cgattatagg cgtgagccac tgtggctggc  
1080  
ctgaaatttt ctagtatcca cattcataaa gtaaaaagaa aataaaaagg catagaatgt  
1140  
caagctaacc aggcgtccgc tacttcagaa gagtgtactg tcgcatgggg agtctgtaac  
1200  
catgcttttc acttcactg catctctcgc tggctcaaaa cagcagaggt gtgtccattg  
1260  
gacaacagag agtgggaatt ccaaaagtat gggcactagg aaaagacttc ttccatcaag  
1320  
cttaattgtt ttgttattca tttaatgact ttccttgctg ttacctaat acaaattgga  
1380  
tggaaactgt tttttttctg ctttgttttt tcagtttgtg gtttctgtag ccatattgta  
1440  
ttctgtgtca aataaagtcc agttggattc tggaaaaaaa aa  
1482

&lt;210&gt; 1542

&lt;211&gt; 57

&lt;212&gt; PRT

&lt;213&gt; Homo sapiens

&lt;400&gt; 1542

```

Lys Gly Ile Glu Cys Gln Ala Asn Gln Ala Ser Ala Thr Ser Glu Glu
 1             5             10             15
Cys Thr Val Ala Trp Gly Val Cys Asn His Ala Phe His Phe His Cys
          20             25             30
Ile Ser Arg Trp Leu Lys Thr Arg Gln Val Cys Pro Leu Asp Asn Arg
          35             40             45
Glu Trp Glu Phe Gln Lys Tyr Gly His
 50             55

```

&lt;210&gt; 1543

&lt;211&gt; 311

&lt;212&gt; DNA

&lt;213&gt; Homo sapiens

&lt;400&gt; 1543

```

gctagcgatg ctactttaag gtatgcgaag ttggatgctg acgttgccctc ctatcggttg
60
gagtcacaacg gacgaacaag cgttcgaggt agctttaaat gcggcgcgacg ccagaaaagtt
120
accaaaagtcg gtgcgcgcgc ttatgtttct cgaatggctc acgcgcgcgag gctacttgct
180
ccacgggctcg agccgagccg acctcgcttg ttttgaaact cgagcaccca aagacttcag
240
ccctgacgag ttcagcaaac gcaccgcctg tttcgctctc tcagatgggg tgtggccccc
300
cncnccccc c
311

```

&lt;210&gt; 1544

&lt;211&gt; 96

&lt;212&gt; PRT

&lt;213&gt; Homo sapiens

&lt;400&gt; 1544

```

Met Arg Ser Trp Met Leu Thr Leu Pro Pro Ile Gly Trp Ser Gln Thr
 1             5             10             15
Asp Glu Gln Ala Phe Glu Val Ala Leu Asn Ala Gly Asp Ala Arg Lys
          20             25             30
Leu Pro Lys Ser Val Pro Arg Leu Met Phe Leu Glu Trp Leu Thr Arg
          35             40             45
Arg Gly Tyr Leu Leu His Gly Ser Ser Arg Ala Asp Leu Val Cys Phe
          50             55             60
Glu Pro Arg Ala Pro Lys Asp Phe Ser Pro Asp Glu Phe Ser Lys Arg
          65             70             75             80
Thr Ala Val Phe Ala Ser Ser Asp Gly Val Trp Pro Pro Xaa Xaa Xaa
          85             90             95

```

&lt;210&gt; 1545

&lt;211&gt; 362

&lt;212&gt; DNA

&lt;213&gt; Homo sapiens

<400> 1545  
 ccacgtgtgag gccgtctggt aacgataggc aaatccttgc catgccacca attcttcctt  
 60  
 caacagtagt tggcgaatcc ttcgatggtc aagtcctgtg agcttgctca tctgacggat  
 120  
 cgtctctgtc tcaagcacct cgctgtttc caggttcaag gcctggatag tgcgagtgct  
 180  
 gtactgggtc atcacttcca ccgagtggtc tgggtagccc ctgccattc gctttatgat  
 240  
 ctcaaccata gatgcatttg gcatgttcca gagcttgtag tccttaacga tctctctggc  
 300  
 gtcgtagaaa accttcacgc tatcgtcagg atgggtcact gtggtgatgt accgtccaga  
 360  
 ac  
 362

<210> 1546  
 <211> 92  
 <212> PRT  
 <213> Homo sapiens

<400> 1546  
 Met Val Lys Ser Cys Glu Leu Ala His Leu Thr Asp Arg Leu Cys Leu  
 1 5 10 15  
 Lys His Leu Ala Cys Phe Gln Val Gln Gly Leu Asp Ser Ala Ser Val  
 20 25 30  
 Val Leu Val Asp His Phe His Arg Val Val Trp Val Ala Pro Cys His  
 35 40 45  
 Ser Leu Tyr Asp Leu Asn His Arg Cys Ile Trp His Val Pro Glu Leu  
 50 55 60  
 Val Leu Leu Asn Asp Leu Ser Gly Val Val Glu Asn Leu His Ala Ile  
 65 70 75 80  
 Val Arg Met Gly His Cys Gly Asp Val Pro Ser Arg  
 85 90

<210> 1547  
 <211> 429  
 <212> DNA  
 <213> Homo sapiens

<400> 1547  
 cgcggttgcca caccgaaga cccggccagc tcacgcctgt gtgaaagttt ctgggcgttc  
 60  
 ctgccgcggt cggtgtggtt cagcgccgtg tcggcgtgga acctggagcg cgagcgcctg  
 120  
 cgcaaacctg gcctgccggc ctggcactgg aagaacgcgc tgctcagtgc ctggatgtac  
 180  
 agcgtgtgtg tgtggggggg gatgattgtc tggttggggc cggcggtgat tccgttcctg  
 240  
 atcattcagg gtgtctacgg gttctcgttg ctggaagtgg tcaactacgt cgagcactac  
 300  
 gggcttaaac gccagaagt gcccaacggc cggttatgaac ggtgttcgcc tcggcactcg  
 360

tggaacagca accggattgt caccaatatc tttctgttcc aacttcagcg gcattccgac  
 420  
 caccatgcc  
 429

<210> 1548  
 <211> 143  
 <212> PRT  
 <213> Homo sapiens

<400> 1548  
 Arg Val Ala Thr Pro Glu Asp Pro Ala Ser Ser Arg Leu Gly Glu Ser  
 1 5 10 15  
 Phe Trp Ala Phe Leu Pro Arg Ser Val Trp Phe Ser Ala Val Ser Ala  
 20 25 30  
 Trp Asn Leu Glu Arg Glu Arg Leu Arg Lys Leu Gly Leu Pro Ala Trp  
 35 40 45  
 His Trp Lys Asn Ala Val Leu Ser Ala Trp Met Tyr Ser Val Val Leu  
 50 55 60  
 Trp Gly Val Met Ile Val Trp Leu Gly Ala Ala Val Ile Pro Phe Leu  
 65 70 75 80  
 Ile Ile Gln Gly Val Tyr Gly Phe Ser Leu Leu Glu Val Val Asn Tyr  
 85 90 95  
 Val Glu His Tyr Gly Leu Lys Arg Gln Lys Leu Pro Asn Gly Arg Tyr  
 100 105 110  
 Glu Arg Cys Ser Pro Arg His Ser Trp Asn Ser Asn Arg Ile Val Thr  
 115 120 125  
 Asn Ile Phe Leu Phe Gln Leu Gln Arg His Ser Asp His His Ala  
 130 135 140

<210> 1549  
 <211> 443  
 <212> DNA  
 <213> Homo sapiens

<400> 1549  
 gtgcagacaggc tccagggttc tgttttgtag tgcaccgcgt gtggtgcaac atgcgtctgg  
 60  
 gcacaccaggc gtgcgccgtt tectgttgta gtctttcttc tctgaactcca ggggtattgg  
 120  
 gtctttctgc cagcgcccat gcaactttgg cagcctggcc tgtctgtctgg taagtggggc  
 180  
 agaatccctg cactccacca ttcttgggca caactccctc taggattttg gtctcccttt  
 240  
 tctctctggt ctttgaccac cgctaccag caaactcctc catctagacc agccagcatt  
 300  
 gggtttcttc actccccag ctgcgcgctg ggaggcgcca ctgcaaaact ccctgggggc  
 360  
 tcccagctgc tcagagatcc ccatgccctt cctgatcag ctccctgccc gggtctcttc  
 420  
 ccgacgcggc tgcattgata ttc  
 443

<210> 1550

&lt;211&gt; 139

&lt;212&gt; PRT

&lt;213&gt; Homo sapiens

&lt;400&gt; 1550

```

Met Arg Thr Gly Gln Gly Ala Asp Gln Gly Arg Ala Trp Gly Ser Leu
 1           5           10
Ser Ser Trp Glu Thr Pro Gly Lys Phe Ala Val Ala Pro Pro Thr Arg
          20           25           30
Gln Leu Gly Glu Trp Lys Lys Pro Met Leu Ala Gly Leu Asp Gly Gly
          35           40           45
Val Cys Trp Val Ala Val Val Lys Asp Gln Arg Glu Lys Gly Asp Gln
          50           55           60
Asn Pro Arg Gly Ser Val Ala Gln Glu Trp Trp Ser Ala Gly Ile Leu
65           70           75           80
Pro His Leu Pro Ala Asp Arg Pro Gly Cys Gln Ser Cys Met Gly Ala
          85           90           95
Gly Arg Lys Thr Gln Tyr Pro Trp Ser Gln Arg Gly Lys Thr Thr Thr
          100          105          110
Gly Asn Gly Arg Arg Trp Cys Ala Gln Thr His Val Ala Pro Gln Arg
          115          120          125
Val His Tyr Lys Thr Glu Pro Trp Ser Leu Ser
          130          135

```

&lt;210&gt; 1551

&lt;211&gt; 306

&lt;212&gt; DNA

&lt;213&gt; Homo sapiens

&lt;400&gt; 1551

```

ccatggatcac cccacctctg gcaactcaaca tgacttggct gccacacacc aggaaacctc
60
agaggagcag ccagctggcc aagcaccctc gcccttgccc tgcgggctcc acaaaagctg
120
gaggagcaaa cgcagctcac ctctttttct gtccactgct tcagggccta ccctgtgct
180
ttggagatgg aacaaaagtg agagagctcc ctgacacacc ctcccagggc gaggatggca
240
gtcctctcct ccatttggtc ctaacacagc ctccccagga gaccaggggc atccnnnnn
300
cccnnc
306

```

&lt;210&gt; 1552

&lt;211&gt; 101

&lt;212&gt; PRT

&lt;213&gt; Homo sapiens

&lt;400&gt; 1552

```

Met Asp Thr Pro Pro Leu Ala Leu Asn Met Thr Trp Leu Pro His Thr
 1           5           10           15
Arg Lys Pro Gln Arg Ser Ser Gln Leu Ala Lys His Pro Cys Pro Cys
          20           25           30
Pro Ala Gly Ser Thr Lys Ala Gly Gly Ala Asn Ala Ala His Leu Phe

```

```

      35              40              45
Phe Cys Pro Leu Leu Gln Gly Leu Pro Leu Cys Phe Gly Asp Gly Thr
  50              55              60
Lys Val Arg Glu Leu Pro Asp Thr Pro Ser Gln Gly Glu Asp Gly Ser
  65              70              75              80
Ser Phe Leu His Leu Val Leu Thr Gln Pro Pro Gln Glu Thr Arg Gly
      85              90              95
Ile Pro Xaa Pro Xaa
      100

```

&lt;210&gt; 1553

&lt;211&gt; 657

&lt;212&gt; DNA

&lt;213&gt; Homo sapiens

&lt;400&gt; 1553

```

atcctgcaga atgatggcgt ggaccaccgc ccctattccc ggcacgcaa ggcgggcccac
60
acgctactca tcctgggggg ccagaccttc atgtgtgaca agatctacca ggtggaccac
120
aaggccaagg agatcatccc caagcccgac ctgcccgacc cccggaagga gttcagcgcc
180
tcagcgatcg gctgcaaggc ctatgtgacg gggggcaggg gctccgagaa cgggggtctcc
240
aaggatgtct ggggtgtacga caccgtacat gaggaatggt ccaaggcggc gcccatgctg
300
attgcccgcg ttggccatgg ctacgctgag ctggagaact gcctctatgt ggtgggggga
360
cacacatccc tggcaggggg cttcccggcc tcgccttctg tctccctgaa acaagtggag
420
aaatacgacc ctggggccaa caagtggatg atggtggccc cttgcggga tggcgctcagc
480
aatgccgacg tgggtgagtgc caagctgaag ctctttgttt ttggaggaac cagcatccac
540
cgggacatgg tgtccaaggc ccagtgtatg gaccctcgg agaacagggt gacgatcaag
600
gccgagtgcc ccagccttg gcggtacaca gccgctgccg tcctgggag ccagatc
657

```

&lt;210&gt; 1554

&lt;211&gt; 219

&lt;212&gt; PRT

&lt;213&gt; Homo sapiens

&lt;400&gt; 1554

```

Ile Leu Gln Asn Asp Gly Val Val Thr Ser Pro Tyr Ser Arg Pro Arg
  1              5              10              15
Lys Ala Gly His Thr Leu Leu Ile Leu Gly Gly Gln Thr Phe Met Cys
      20              25              30
Asp Lys Ile Tyr Gln Val Asp His Lys Ala Lys Glu Ile Pro Lys
      35              40              45
Ala Asp Leu Pro Ser Pro Arg Lys Glu Phe Ser Ala Ser Ala Ile Gly
      50              55              60
Cys Lys Val Tyr Val Thr Gly Gly Arg Gly Ser Glu Asn Gly Val Ser

```

```

65          70          75          80
Lys Asp Val Trp Val Tyr Asp Thr Val His Glu Glu Trp Ser Lys Ala
      85          90          95
Ala Pro Met Leu Ile Ala Arg Phe Gly His Gly Ser Ala Glu Leu Glu
      100          105          110
Asn Cys Leu Tyr Val Val Gly Gly His Thr Ser Leu Ala Gly Val Phe
      115          120          125
Pro Ala Ser Pro Ser Val Ser Leu Lys Gln Val Glu Lys Tyr Asp Pro
      130          135          140
Gly Ala Asn Lys Trp Met Met Val Ala Pro Leu Arg Asp Gly Val Ser
145          150          155          160
Asn Ala Ala Val Val Ser Ala Lys Leu Lys Leu Phe Val Phe Gly Gly
      165          170          175
Thr Ser Ile His Arg Asp Met Val Ser Lys Val Gln Cys Tyr Asp Pro
      180          185          190
Ser Glu Asn Arg Trp Thr Ile Lys Ala Glu Cys Pro Gln Pro Trp Arg
      195          200          205
Tyr Thr Ala Ala Ala Val Leu Gly Ser Gln Ile
      210          215

```

&lt;210&gt; 1555

&lt;211&gt; 328

&lt;212&gt; DNA

&lt;213&gt; Homo sapiens

&lt;400&gt; 1555

```

acgcgtggga gctcgggaga gaggactctg cttctggggg ttgaagggtga gcgtgattct
60
ggaggagcct gccttcgggc gagcgtgtgt tgtggagagg atgcaggaca tgagtgatcc
120
tgtaagggtg atcagagtgt cctcgtgaag tctggaagtc agcagagtgt ggccgtggag
180
gtgagccacc ggtttgtgat ttgaaactga gtgagagtgc tgtggagcgc gaaatatgtg
240
tgtgtgtaga gtggagggtga gcgaatttgt gtgcatgtga gacggacgca atggcagagt
300
gtagcatcct gtgttgggat tgggattn
328

```

&lt;210&gt; 1556

&lt;211&gt; 102

&lt;212&gt; PRT

&lt;213&gt; Homo sapiens

&lt;400&gt; 1556

```

Met Leu His Ser Ala Ile Ala Ser Val Ser His Ala His Lys Phe Ala
1          5          10          15
His Leu His Ser Thr His Thr His Ile Ser Arg Ser Thr Ala Leu Ser
      20          25          30
Leu Ser Phe Lys Ser Gln Thr Gly Gly Ser Pro Pro Arg Pro Thr Leu
      35          40          45
Ala Asp Phe Gln Thr Ser Arg Gly Thr Leu Asp His Pro Tyr Arg Ile
      50          55          60
Thr His Val Leu His Pro Leu His Asn Thr Arg Ser Pro Gln Gly Arg

```

```

65              70              75              80
Leu Leu Gln Asn His Ala His Leu Gln Thr Pro Glu Ala Glu Ser Ser
      85              90              95
Leu Pro Ser Ser His Ala
      100

```

```

<210> 1557
<211> 390
<212> DNA
<213> Homo sapiens

```

```

<400> 1557
gtgcacagac ttttcgagcg ggccattaag tggtttacgt ctgggatcgg ctccgctttc
60
tcgcattttt cggatcaggt caaattctgt gctcggcatt gacaggaaat tgacgtgtat
120
cagtcgattc tttgcagtgt ctggacggca ggctgaatag gctgaaagca ggacaactac
180
gaccatgccg caccatgtgg atcgtctacc gttttggcct tgccgccatt gccttgatcg
240
ccctgattgc gctgttcgtg tgccagtacc ggctatcggc caggctggcg cgccggaagc
300
gaagctcgat gggcagcagg cgcattgagga acccggcgcc attgaatcgt gaggcgctgg
360
cggagcgcgg cccgttcaaa tgcgacgcgt
390

```

```

<210> 1558
<211> 114
<212> PRT
<213> Homo sapiens

```

```

<400> 1558
Met Ala Pro Gly Ser Ser Cys Ala Cys Cys Pro Ser Ser Phe Ala Ser
1      5      10      15
Gly Ala Pro Ala Trp Pro Ile Ala Gly Thr Gly Thr Arg Thr Ala Gln
20      25      30
Ser Gly Arg Ser Arg Gln Trp Arg Gln Gly Gln Asn Gly Arg Arg Ser
35      40      45
Thr Trp Cys Gly Met Val Val Val Val Leu Leu Ser Ala Tyr Ser Ala
50      55      60
Cys Arg Pro Asp Thr Ala Lys Asn Arg Leu Ile His Val Asn Phe Leu
65      70      75      80
Ser Met Pro Ser Thr Glu Phe Asp Leu Ile Arg Lys Met Arg Glu Ser
85      90      95
Gly Ala Asp Pro Arg Arg Lys Pro Leu Asn Gly Pro Leu Glu Lys Ser
100      105      110
Val His

```

```

<210> 1559
<211> 556
<212> DNA
<213> Homo sapiens

```

&lt;400&gt; 1559

accgggtggcg acggtatcgg tggcgcgctcg atccttgctt cggaatcctt cgctgcagag  
 60  
 ggtgagtcga agcgacccag cgctccaggtg ggcgacccgt tcatggagaa gctgctcatc  
 120  
 gagtgcaccc ttgacctctt caacgcgggg gtagttgagg ccttgacagga ttctgggtgcc  
 180  
 gccggaatct cctgtgccac ctccgagctg gccagtgctg gcgacgggtg catgcacgtc  
 240  
 gagctcgacc gcgttccgct gcgcgacccg aacctcgccc ctgaagagat cctcatgagc  
 300  
 gagtccccagg agcggatggc cgcggtggtg cgcgccgata agcttgaccg cttcatggag  
 360  
 atctgcgccc attgggggtg cgctgccact gtcattggcg aggtcaccga caccggctga  
 420  
 cttcacattg attggcaggg cgagcggatt gtcgacgtcg atccgcggac ggttgctcac  
 480  
 gacggaccgg ttctcgacat gccggccgcc cgtccgtggt ggattgatga gctcaacgag  
 540  
 aacgacgcta acgctg  
 556

&lt;210&gt; 1560

&lt;211&gt; 185

&lt;212&gt; PRT

&lt;213&gt; Homo sapiens

&lt;400&gt; 1560

Thr Gly Gly Asp Gly Ile Gly Gly Ala Ser Ile Leu Ala Ser Glu Ser  
 1 5 10 15  
 Phe Ala Ala Glu Gly Glu Ser Lys Arg Pro Ser Val Gln Val Gly Asp  
 20 25 30  
 Pro Phe Met Glu Lys Leu Leu Ile Glu Cys Thr Leu Asp Leu Phe Asn  
 35 40 45  
 Ala Gly Val Val Glu Ala Leu Gln Asp Phe Gly Ala Ala Gly Ile Ser  
 50 55 60  
 Cys Ala Thr Ser Glu Leu Ala Ser Ala Gly Asp Gly Gly Met His Val  
 65 70 75 80  
 Glu Leu Asp Arg Val Pro Leu Arg Asp Pro Asn Leu Ala Pro Glu Glu  
 85 90 95  
 Ile Leu Met Ser Glu Ser Gln Glu Arg Met Ala Ala Val Val Arg Pro  
 100 105 110  
 Asp Gln Leu Asp Arg Phe Met Glu Ile Cys Ala His Trp Gly Val Ala  
 115 120 125  
 Ala Thr Val Ile Gly Glu Val Thr Asp Thr Gly Arg Leu His Ile Asp  
 130 135 140  
 Trp Gln Gly Glu Arg Ile Val Asp Val Asp Pro Arg Thr Val Ala His  
 145 150 155 160  
 Asp Gly Pro Val Leu Asp Met Pro Ala Ala Arg Pro Trp Trp Ile Asp  
 165 170 175  
 Glu Leu Asn Glu Asn Asp Ala Asn Ala  
 180 185

<210> 1561  
 <211> 466  
 <212> DNA  
 <213> Homo sapiens

<400> 1561  
 acgcgtgaaa ggtttgagag aagagagatg ccgctattga atctgctgga gttttacatc  
 60  
 ccaagatgaa gacagcattc agaattgatg tgatttcctt gaatgtggct taggaaatgt  
 120  
 ggacacttaa aactctcact tgaaattggg cacagggttg atgtagagat aaggacgggg  
 180  
 tgcggaatgg agaccattt tgtcattgat tcattctgacc gataaggcca tagtgcagtt  
 240  
 aggtgatatt cgaaagcttc tttgatgctc tttatgtata tgttgggaagg aactaccagg  
 300  
 cgttgcttta aatcccaat gtgttggttc gttactacta atttaatacc gtaagctcta  
 360  
 ggtaaagttc catgttggtg aactctgact gttctctttg gaattgaacg ttttgcattc  
 420  
 tctcctctgtg gcttttaggtc tgacattgta tttgaccttt actagt  
 466

<210> 1562  
 <211> 130  
 <212> PRT  
 <213> Homo sapiens

<400> 1562  
 Met Ser Asp Leu Lys Pro Gln Glu Glu Asp Ala Lys Arg Ser Ile Pro  
 1 5 10 15  
 Lys Arg Thr Val Arg Val Gln Gln His Gly Thr Leu Pro Arg Ala Tyr  
 20 25 30  
 Gly Ile Lys Leu Val Val Thr Lys Gln His Ile Gly Asn Leu Lys Gln  
 35 40 45  
 Arg Leu Val Val Pro Ser Asn Ile Tyr Ile Lys Ser Ile Lys Glu Ala  
 50 55 60  
 Phe Glu Tyr His Leu Thr Ala Leu Trp Pro Tyr Arg Ser Asp Glu Ser  
 65 70 75 80  
 Met Thr Lys Trp Val Ser Ile Pro His Pro Val Leu Ile Ser Thr Ser  
 85 90 95  
 Asn Leu Cys Pro Ile Ser Ser Glu Ser Phe Lys Cys Pro His Phe Leu  
 100 105 110  
 Ser His Ile Gln Gly Asn His Ile Asn Ser Glu Cys Cys Leu His Leu  
 115 120 125  
 Gly Met  
 130

<210> 1563  
 <211> 434  
 <212> DNA  
 <213> Homo sapiens

<400> 1563

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 atcttcgctg agatgcagca gcgcaaaacc ctggctgccg agttgccatt gcgcgcggta  
 120  
 ttgcgtgacc accgtggcgc catcgtgctg tcatgctgtg tgacgtggtt gctgtcggcg  
 180  
 ggtgtggttg tggatcatcct gatgaccccg accgtgtgtc aaaccgtcta ccacttcagc  
 240  
 ccgagcgggtg cgctgcaagc caacagcctg gcgatcgtta cgctgagcct gggctgcatt  
 300  
 gcgtccggcg cgctgggtga ccgttttggg gccggtcgcg ttttggtcac cggttggcgt  
 360  
 tgctgctggc cacttcctgg acgctgtatc acagcctgat ggcccgagcg gaatgggtga  
 420  
 ataagtgtac gcgt  
 434

&lt;210&gt; 1564

&lt;211&gt; 132

&lt;212&gt; PRT

&lt;213&gt; Homo sapiens

&lt;400&gt; 1564

Leu Gly Gly Val Phe Gly Leu Leu Ser Val Tyr Leu Pro Arg Trp Leu  
 1 5 10 15  
 His Glu Thr Pro Ile Phe Ala Glu Met Gln Arg Lys Thr Leu Ala  
 20 25 30  
 Ala Glu Leu Pro Leu Arg Ala Val Leu Arg Asp His Arg Gly Ala Ile  
 35 40 45  
 Val Leu Ser Met Leu Leu Thr Trp Leu Leu Ser Ala Gly Val Val Val  
 50 55 60  
 Val Ile Leu Met Thr Pro Thr Val Leu Gln Thr Val Tyr His Phe Ser  
 65 70 75 80  
 Pro Thr Val Ala Leu Gln Ala Asn Ser Leu Ala Ile Val Thr Leu Ser  
 85 90 95  
 Leu Gly Cys Ile Ala Ser Gly Ala Leu Ala Asp Arg Phe Gly Ala Gly  
 100 105 110  
 Arg Val Leu Val Thr Gly Trp Arg Cys Cys Trp Pro Leu Pro Gly Arg  
 115 120 125  
 Cys Ile Thr Ala  
 130

&lt;210&gt; 1565

&lt;211&gt; 373

&lt;212&gt; DNA

&lt;213&gt; Homo sapiens

&lt;400&gt; 1565

ccatggctgt agcccttggt tcaacaagag ccgtctactg acgctaacc accatgagcc  
 60  
 agagggtgag cggttctggc acctactgga ccatgaaagc aataaagagg acaaggaggc  
 120  
 ctgcattcgg ccatttcttc ccaagaatca ccataaaggt tgtcaaaatc aaggacctg  
 180

atccggtgat tctcgaagtc atcgatgagc agaacaagtt tacccccgag ggagaaaaagc  
 240  
 gggtgggtgct cttgatgctc gacaacctct accgtcccag taccacacct gcattggcga  
 300  
 acggggggcgt cccttatctg cggtcgaaga gtgtcactgt tgacctcgta gacagccggg  
 360  
 acaacacggg tac  
 373

<210> 1566

<211> 106

<212> PRT

<213> Homo sapiens

<400> 1566

Met	Ser	Gln	Arg	Val	Ser	Gly	Ser	Gly	Thr	Tyr	Trp	Thr	Met	Lys	Ala
1				5					10					15	
Ile	Lys	Arg	Thr	Arg	Glu	Pro	Ala	Phe	Gly	His	Phe	Phe	Pro	Arg	Ile
			20					25					30		
Thr	Ile	Lys	Val	Val	Lys	Ile	Lys	Asp	Pro	Asp	Pro	Val	Ile	Leu	Glu
		35					40					45			
Val	Ile	Asp	Glu	Gln	Asn	Lys	Phe	Thr	Pro	Glu	Gly	Glu	Lys	Arg	Val
	50				55					60					
Val	Leu	Leu	Met	Leu	Asp	Asn	Leu	Tyr	Arg	Pro	Ser	Thr	His	Arg	Ala
65				70					75					80	
Leu	Ala	Asn	Gly	Gly	Val	Pro	Tyr	Leu	Arg	Ser	Lys	Ser	Val	Thr	Val
			85					90					95		
Asp	Leu	Val	Asp	Ser	Arg	Asp	Asn	Thr	Gly						
			100					105							

<210> 1567

<211> 917

<212> DNA

<213> Homo sapiens

<400> 1567

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 aagccgctgc actcctgggg gaccagttt gatgcctcca ggaggataag tctgaagccg  
 120  
 ggttggaag ggagcggaga ggcccaaaca gacgagcagg cagcgccctc tgctggcacc  
 180  
 ctggagacag ctteggctgc ggggccctcg cttctagtc ctccccagct ttcaggacac  
 240  
 cttgacaacc tggggtcct gcagaagtgg cccggctgtc cccaagtct cctgaagcta  
 300  
 tctgggttagg gtgggaggca gtgctgtgag ccacaaatgc aaagcagagg ggacagatgt  
 360  
 tgggactcaa agacatgagg tagagctggc cccatgggta ggtgccacca ccagagccca  
 420  
 tgaggcttcg tgttctagaa ggtggtgggt tagtgccgca ctgagggcgt gtccgggagg  
 480  
 gagcatgtgt caccagggtc caggaaacag catgagtcac gacgcggggg tgtttaaggc  
 540

attcgtgccca cagcgggggac ctccggagcta tgccttgata aggcaagtga ggttacatgt  
 600  
 acgatgatgc ggtttgtgct gcagactgga aaaaagcagg ggctttgtcc tctcctgacc  
 660  
 ccctcacact ctgccttcac ggtaggctcc tgagaggggg gtctccaagg aggggtgcag  
 720  
 tactgcagct tcagctggcg tggatgggggt gcttacagga gcagcagggc tgaggagat  
 780  
 gacagcagta cgaatcgtgg ctctcctgag gcctgggttt cctcatatgt aaaatggggg  
 840  
 ttgcattaga ccataccctt ggctgtgtt taggcaaata gggatgaaag tggggccaag  
 900  
 ggctgaagag ctgggtc  
 917

<210> 1568

<211> 113

<212> PRT

<213> Homo sapiens

<400> 1568

Met	Gly	Pro	Ala	Leu	Pro	His	Val	Phe	Glu	Ser	Gln	His	Leu	Ser	Pro
1			5						10				15		
Leu	Leu	Cys	Ile	Cys	Gly	Ser	Gln	His	Cys	Leu	Pro	Pro	Tyr	Pro	Asp
			20					25					30		
Ser	Phe	Arg	Arg	Leu	Gly	Gly	Gln	Pro	Gly	His	Phe	Cys	Arg	Asp	Pro
		35					40				45				
Arg	Leu	Ser	Arg	Cys	Pro	Glu	Ser	Trp	Gly	Gly	Leu	Glu	Gly	Arg	Gly
	50					55					60				
Pro	Ala	Ala	Glu	Ala	Val	Ser	Arg	Val	Pro	Ala	Glu	Gly	Ala	Ala	Cys
	65				70					75				80	
Cys	Ser	Val	Trp	Ala	Ser	Pro	Leu	Pro	Ser	Gln	Pro	Gly	Phe	Arg	Leu
			85						90				95		
Ile	Leu	Leu	Glu	Ala	Ser	Asn	Trp	Val	Pro	Gln	Glu	Cys	Ser	Gly	Phe
			100					105					110		

Pro

<210> 1569

<211> 379

<212> DNA

<213> Homo sapiens

<400> 1569

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 aatgcgaagc ctgctgccac catcatctgg ttccggggac ggacgcagca ggagggcgct  
 120  
 gtggccagca cggaattgct gaaggatggg aagagggaga ccaccgtgag ccaactgctt  
 180  
 attaacccca cggacctgga catagggcgt gtcttcaact gccgaagcat gaacgaagcc  
 240  
 atccctagtg gcaaggagac ttccatcgag ctggatgtgc accaccctcc tacagtgacc  
 300

ctgtccattg agccacagac ggtgcaggag ggtgagcgtg ttgtctttac ctgccaggcc  
 360  
 acagccaacc cggagatct  
 379

<210> 1570

<211> 126

<212> PRT

<213> Homo sapiens

<400> 1570

Gly	Gly	Pro	Val	Ile	Leu	Leu	Gln	Ala	Gly	Thr	Pro	His	Asn	Leu	Thr
1				5					10					15	
Cys	Arg	Ala	Phe	Asn	Ala	Lys	Pro	Ala	Ala	Thr	Ile	Ile	Trp	Phe	Arg
		20						25					30		
Asp	Gly	Thr	Gln	Gln	Glu	Gly	Ala	Val	Ala	Ser	Thr	Glu	Leu	Leu	Lys
	35					40					45				
Asp	Gly	Lys	Arg	Glu	Thr	Thr	Val	Ser	Gln	Leu	Leu	Ile	Asn	Pro	Thr
	50				55					60					
Asp	Leu	Asp	Ile	Gly	Arg	Val	Phe	Thr	Cys	Arg	Ser	Met	Asn	Glu	Ala
65				70					75				80		
Ile	Pro	Ser	Gly	Lys	Glu	Thr	Ser	Ile	Glu	Leu	Asp	Val	His	His	Pro
			85						90				95		
Pro	Thr	Val	Thr	Leu	Ser	Ile	Glu	Pro	Gln	Thr	Val	Gln	Glu	Gly	Glu
		100					105					110			
Arg	Val	Val	Phe	Thr	Cys	Gln	Ala	Thr	Ala	Asn	Pro	Glu	Ile		
	115						120					125			

<210> 1571

<211> 357

<212> DNA

<213> Homo sapiens

<400> 1571

tgcgcacttt tccgctcccg atgggtccccc tggncgttga tcatgcccca gatgttcatt  
 60  
 atcggcatct tcttcttctt gccaaagcggc caagccgtgc tccagctctt ccagatggaa  
 120  
 gatcggttcg gcattgtcgac cgaatgggtc ggattggaca acttccgcaa cctgctggat  
 180  
 gaccccaact acctgaattc cttccagcgc accgccgtgt tctcggtgct ggtggcaggg  
 240  
 gtcgggatcg ccgtgtcact gggctctggcg atctttgccc accccatcac tccgtgcgca  
 300  
 tgtgtacaag acacactgct gatcgtgccc tacgccgtgg caccatgat cgccggc  
 357

<210> 1572

<211> 119

<212> PRT

<213> Homo sapiens

<400> 1572

Cys Ala Leu Phe Arg Ser Arg Trp Val Pro Trp Xaa Leu Ile Met Pro

```

      1             5             10             15
Gln Met Phe Ile Ile Gly Ile Phe Phe Phe Leu Pro Ser Gly Gln Ala
      20             25             30
Val Leu Gln Ser Phe Gln Met Glu Asp Ala Phe Gly Met Ser Thr Glu
      35             40             45
Trp Val Gly Leu Asp Asn Phe Arg Asn Leu Leu Asp Asp Pro Thr Tyr
      50             55             60
Leu Asn Ser Phe Gln Arg Thr Ala Val Phe Ser Val Leu Val Ala Gly
      65             70             75             80
Val Gly Ile Ala Val Ser Leu Gly Leu Ala Ile Phe Ala Asp Pro Ile
      85             90             95
Thr Pro Ser Pro Cys Val Gln Asp Thr Leu Leu Ile Val Pro Tyr Ala
      100             105             110
Val Ala Pro Met Ile Ala Gly
      115

```

<210> 1573

<211> 337

<212> DNA

<213> Homo sapiens

<400> 1573

```

gaattcccat tgcatctga ttccatgtct ggaaagaggg aagagagaca tcattgcagaa
60
tattgtacag attttggaat cgggtacagtt gaaatgggaa ctttttcaga gctggacaga
120
cttttcaagg ctccatcttt ctaataaaact ggccattttt ggaattggtt ataacaccgg
180
ttggaaaagag gatatccgtt accattatgc tgagatcagc tcccaggtgc cccttggtcaa
240
gcgacttcgg gagtacttca actctgagaa gcctgaagga cggatcatta tgaccgcgagt
300
gcagaaaatg aactggaaaa atgtttacta caaatatt
337

```

<210> 1574

<211> 95

<212> PRT

<213> Homo sapiens

<400> 1574

```

Met Gln Asn Ile Val Gln Ile Leu Glu Ser Val Gln Leu Lys Trp Glu
      1             5             10             15
Leu Phe Gln Ser Trp Thr Asp Phe Ser Arg Leu His Leu Ser Asn Lys
      20             25             30
Leu Ala Ile Phe Gly Ile Gly Tyr Asn Thr Arg Trp Lys Glu Asp Ile
      35             40             45
Arg Tyr His Tyr Ala Glu Ile Ser Ser Gln Val Pro Leu Gly Lys Arg
      50             55             60
Leu Arg Glu Tyr Phe Asn Ser Glu Lys Pro Glu Gly Arg Ile Ile Met
      65             70             75             80
Thr Arg Val Gln Lys Met Asn Trp Lys Asn Val Tyr Tyr Lys Phe
      85             90             95

```

&lt;210&gt; 1575

&lt;211&gt; 471

&lt;212&gt; DNA

&lt;213&gt; Homo sapiens

&lt;400&gt; 1575

```

nnacgcgtca gagagatctg tgtgtcggga ggggtgcccc tcatcattga tgaccgcgta
60
catctcgttg ccgaaattgg ggccgatggt gtccatgttg ggcagtctga catgccggtc
120
gaccaggccc gtgcgattct gggcgacgat ctactcatcg gcttgtccgc tcagactccc
180
gcccatgttg aggccgccct gtcccagggg cgtgacatcg tcgactatct gggagttggg
240
gccctgcatg gtactggaac caaacctgag gctggggagc tcggcctggc tgagattcgt
300
gatgtcgtca acgccagccc gtggccggtg tgcgtcatcg gtggggtgag cgcattccgat
360
gctcaagacg tagccccggg gggatgtgac ggcctgagcg tcgtctcgcc gatttgccgg
420
agtaccgacc ccaagtccag tgcacgggaa cttgcggagg cgtggcgctac g
471

```

&lt;210&gt; 1576

&lt;211&gt; 157

&lt;212&gt; PRT

&lt;213&gt; Homo sapiens

&lt;400&gt; 1576

```

Xaa Arg Val Arg Glu Ile Cys Val Ser Gly Gly Val Pro Leu Ile Ile
1 5 10 15
Asp Asp Arg Val His Leu Val Ala Glu Ile Gly Ala Asp Gly Val His
20 25 30
Val Gly Gln Ser Asp Met Pro Val Asp Gln Ala Arg Ala Ile Leu Gly
35 40 45
Asp Asp Leu Leu Ile Gly Leu Ser Ala Gln Thr Pro Ala His Val Glu
50 55 60
Ala Ala Leu Ser Gln Gly Arg Asp Ile Val Asp Tyr Leu Gly Val Gly
65 70 75 80
Ala Leu His Gly Thr Gly Thr Lys Pro Glu Ala Gly Glu Leu Gly Leu
85 90 95
Ala Glu Ile Arg Asp Val Val Asn Ala Ser Pro Trp Pro Val Cys Val
100 105 110
Ile Gly Gly Val Ser Ala Ser Asp Ala Gln Asp Val Ala Arg Val Gly
115 120 125
Cys Asp Gly Leu Ser Val Val Ser Ala Ile Cys Arg Ser Thr Asp Pro
130 135 140
Lys Ser Ser Ala Arg Glu Leu Ala Glu Ala Trp Arg Thr
145 150 155

```

&lt;210&gt; 1577

&lt;211&gt; 287

&lt;212&gt; DNA

&lt;213&gt; Homo sapiens

&lt;400&gt; 1577

ctcgtctctcc agcgtccgat cagtgcgctc aggatgctga tcggcgggccc cttgcgcatc  
 60  
 ccccatcctg cgggcttgcg caagggttgcg ctccaacccg gcgtcgcgca cgcgcgcacc  
 120  
 ttgcgcgttg cgggggcagg cttccccgct cgcggccagc gcgcgcgcgg cgatctgggtg  
 180  
 atcgagctgg agccgatgct gccgcaggcg cccgacaagc aactgcacgc gctgatcgag  
 240  
 cagctcgacg tggcgctcgg gaagagcggc acacgccatt ttccgga  
 287

&lt;210&gt; 1578

&lt;211&gt; 95

&lt;212&gt; PRT

&lt;213&gt; Homo sapiens

&lt;400&gt; 1578

Leu	Val	Leu	Gln	Arg	Pro	Ile	Ser	Ala	Leu	Arg	Met	Leu	Ile	Gly	Gly
1			5						10				15		
Pro	Leu	Arg	Ile	Pro	His	Pro	Ala	Gly	Leu	Arg	Thr	Val	Ala	Leu	Glu
			20					25				30			
Pro	Gly	Val	Ala	His	Ala	Arg	Thr	Leu	Arg	Val	Ala	Gly	Ala	Gly	Phe
		35				40				45					
Pro	Ala	Arg	Gly	Gln	Arg	Ala	Ala	Gly	Asp	Leu	Val	Ile	Glu	Leu	Glu
	50				55				60						
Pro	Met	Leu	Pro	Gln	Ala	Pro	Asp	Lys	Gln	Leu	His	Ala	Leu	Ile	Glu
65				70					75					80	
Gln	Leu	Asp	Val	Ala	Leu	Gly	Lys	Ser	Ala	Thr	Arg	His	Phe	Pro	
			85					90					95		

&lt;210&gt; 1579

&lt;211&gt; 2829

&lt;212&gt; DNA

&lt;213&gt; Homo sapiens

&lt;400&gt; 1579

nggggcgggg agcggacttc ctcctctgag ggccgtgccg cgctgccaga tttgttcttc  
 60  
 cgcccttgcc tccgcggctc ggaggcgagc ggaaggtgcc cgggggccga ggcccttgac  
 120  
 ggggcggggg ggagccccgg cagtccgggg tcgcccgcga gggccatgtc gctgttgggg  
 180  
 gaccgctac aggccttgcc gccctcggcc gccccacgg ggccgctgct cgccctcctg  
 240  
 gccggcgcca cctcaaccg cctgcgggag cgcgtgctgc ggaggctcag cgagctcctg  
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 360  
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 420  
 ggaagcccca gcctgtgtct gctgaagtta atgggtgaaa aaggttgcac agtcacagaa  
 480

ttgagtgtatt tctctgcaggc tatggaacac actgaagttc ttcagcttct cagcccccca  
540  
ggaataaaga ttactgtaaa ccagagtgca aaggcagttc tggctggaca gtttgtgaaa  
600  
ctgtgtgtgcc gggcaactgg acatcctttt gttcaatata agtgggttcaa aatgaataaa  
660  
gagattccaa atggaaatac atcagagctt atttttaatg cagtgcattg aaaagatgca  
720  
ggcttttatg tctgtcaggt taataacaat ttcaccttgg aattcagcca gtggtcacag  
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840  
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900  
ttacagtgtg ttgctgttgg aagccctatt cctcactacc agtgggttcaa aatgaatta  
960  
ccattaacac atgagaccaa aaagctatac atgggtgcctt atgcggattt ggaacaccaa  
1020  
ggaacctact ggtgtcatgt atataatgat cgagacagtc aagatagcaa gaaggtagaa  
1080  
atcatcatag gaagaacaga tgaggcagtg gattgcactg aagatgaatt aaataatctt  
1140  
ggtcatcctg ataataaga gcaacaactg gaccagcctt tggcgaagga caagggtgcc  
1200  
cttttgtagt gaaatatgaa ttaccgggag caccacaagc tcaaagctcc tttggtggat  
1260  
gtgtacgaat tgactaactt actgagacag ctggacttca aagtggtttc actgttggtg  
1320  
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1380  
gtatatgggt tattatatata tgcaggacat ggttatgaaa attttgggaa cagcttcattg  
1440  
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1500  
ctgaaattga tgcaagaaaa agaaactgga cttaattgtg tcttattgga tatgtgtagg  
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aaaagaaatg actacgatga taccattcca atcttggatg cactaaaagt caccgccaat  
1620  
attgtgtttg gatatgccac gtgtcaagga gcagaagctt ttgaaatcca gcattctgga  
1680  
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1800  
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1920  
cttccagaaa gtatgtgtct taagtttgac tgtggtgttc agattcaatt aggatttgca  
1980  
gctgagtttt ccaatgtcat gatcatctat acaagtatat tttaaaaacc accggagata  
2040  
ataatgtgtg atgcctacgt tactgatttt ccacttgatc tagatattga tccaaaagat  
2100

gcaataaag gcacacctga agaaactggc agctacttgg tatcaaagga tcttccaag  
 2160  
 cattgcctct ataccagact cagttcactg caaaaattaa aggaacatct agtcttcaca  
 2220  
 gtatgtttat catatcagta ctcaggattg gaagatactg tagaggacaa gcaggaaagt  
 2280  
 aatgttggga aacctctcat tgctaaatta gacatgcac gaggtttggg aaggaagact  
 2340  
 tgctttcaaa cttgtcttat gtctaattgt ccttaccaga gttctgcagc cacctcagga  
 2400  
 ggagcagggc attatcactc attgcaagac ccattccatg gtgtttacca ttcacatcct  
 2460  
 ggtaaatcaa gtaatgttac accagcagat agctgtcatt gcagccggac tccagatgca  
 2520  
 tttattttcaa gtttcgctca ccatgcttca tgcattttta gtagaagtaa tgtgccagta  
 2580  
 gagacaactg atgaaatacc atttagtttc tctgacaggc tcgaattttc tgaaaaatga  
 2640  
 cctccttggt tttgaaagt agcataatct tagatgcctg tgaaatagta ctgcacttac  
 2700  
 ataaagttag acattgtgaa aaggcaaatt tgtatatgta gagaaagaat agtagtaact  
 2760  
 gtttcatagc aaacttcagg actttgagat gttgaaatta cattatttaa ttacagactt  
 2820  
 cctctttct  
 2829

&lt;210&gt; 1580

&lt;211&gt; 824

&lt;212&gt; PRT

&lt;213&gt; Homo sapiens

&lt;400&gt; 1580

Met Ser Leu Leu Gly Asp Pro Leu Gln Ala Leu Pro Pro Ser Ala Ala  
 1 5 10 15  
 Pro Thr Gly Pro Leu Leu Ala Pro Pro Ala Gly Ala Thr Leu Asn Arg  
 20 25 30  
 Leu Arg Glu Pro Leu Leu Arg Arg Leu Ser Glu Leu Leu Asp Gln Ala  
 35 40 45  
 Pro Glu Gly Arg Gly Trp Arg Arg Leu Ala Glu Leu Ala Gly Ser Arg  
 50 55 60  
 Gly Arg Leu Arg Leu Ser Cys Leu Asp Leu Glu Gln Cys Ser Leu Lys  
 65 70 75 80  
 Val Leu Glu Pro Glu Gly Ser Pro Ser Leu Cys Leu Leu Lys Leu Met  
 85 90 95  
 Gly Glu Lys Gly Cys Thr Val Thr Glu Leu Ser Asp Phe Leu Gln Ala  
 100 105 110  
 Met Glu His Thr Glu Val Leu Gln Leu Leu Ser Pro Pro Gly Ile Lys  
 115 120 125  
 Ile Thr Val Asn Pro Glu Ser Lys Ala Val Leu Ala Gly Gln Phe Val  
 130 135 140  
 Lys Leu Cys Cys Arg Ala Thr Gly His Pro Phe Val Gln Tyr Gln Trp  
 145 150 155 160  
 Phe Lys Met Asn Lys Glu Ile Pro Asn Gly Asn Thr Ser Glu Leu Ile

Phe	Asn	Ala	Val	His	Val	Lys	Asp	Ala	Gly	Phe	Tyr	Val	Cys	Arg
180								170						175
Asn	Asn	Asn	Phe	Thr	Phe	Glu	Phe	Ser	Gln	Trp	Ser	Gln	Leu	Asp
195							200					205		
Cys	Asp	Ile	Pro	Glu	Ser	Phe	Gln	Arg	Ser	Val	Asp	Gly	Val	Ser
210						215					220			
Ser	Lys	Leu	Gln	Ile	Cys	Val	Glu	Pro	Thr	Ser	Gln	Lys	Leu	Met
225					230					235				240
Gly	Ser	Thr	Leu	Val	Leu	Gln	Cys	Val	Ala	Val	Gly	Ser	Pro	Ile
				245					250					255
His	Tyr	Gln	Trp	Phe	Lys	Asn	Glu	Leu	Pro	Leu	Thr	His	Glu	Thr
				260				265					270	
Lys	Leu	Tyr	Met	Val	Pro	Tyr	Ala	Asp	Leu	Glu	His	Gln	Gly	Thr
		275					280					285		
Trp	Cys	His	Val	Tyr	Asn	Asp	Arg	Asp	Ser	Gln	Asp	Ser	Lys	Lys
						295					300			
Glu	Ile	Ile	Ile	Gly	Arg	Thr	Asp	Glu	Ala	Val	Glu	Cys	Thr	Glu
305					310					315				320
Glu	Leu	Asn	Asn	Leu	Gly	His	Pro	Asp	Asn	Lys	Glu	Gln	Thr	Asp
				325					330					335
Gln	Pro	Leu	Ala	Lys	Asp	Lys	Val	Ala	Leu	Leu	Ile	Gly	Asn	Met
				340				345					350	
Tyr	Arg	Glu	His	Pro	Lys	Leu	Lys	Ala	Pro	Leu	Val	Asp	Val	Tyr
							360					365		
Leu	Thr	Asn	Leu	Leu	Arg	Gln	Leu	Asp	Phe	Lys	Val	Val	Ser	Leu
						375					380			
Asp	Leu	Thr	Glu	Tyr	Glu	Met	Arg	Asn	Ala	Val	Asp	Glu	Phe	Leu
385					390				395					400
Leu	Leu	Asp	Lys	Gly	Val	Tyr	Gly	Leu	Leu	Tyr	Tyr	Ala	Gly	His
				405					410					415
Tyr	Glu	Asn	Phe	Gly	Asn	Ser	Phe	Met	Val	Pro	Val	Asp	Ala	Pro
				420				425					430	
Pro	Tyr	Arg	Ser	Glu	Asn	Cys	Leu	Cys	Val	Gln	Asn	Ile	Leu	Lys
							440					445		
Met	Gln	Glu	Lys	Glu	Thr	Gly	Leu	Asn	Val	Phe	Leu	Leu	Asp	Met
						455					460			
Arg	Lys	Arg	Asn	Asp	Tyr	Asp	Asp	Thr	Ile	Pro	Ile	Leu	Asp	Ala
465					470				475					480
Lys	Val	Thr	Ala	Asn	Ile	Val	Phe	Gly	Tyr	Ala	Thr	Cys	Gln	Gly
				485					490					495
Glu	Ala	Phe	Glu	Ile	Gln	His	Ser	Gly	Leu	Ala	Asn	Gly	Ile	Phe
								505					510	
Lys	Phe	Leu	Lys	Asp	Arg	Leu	Leu	Glu	Asp	Lys	Lys	Ile	Thr	Val
							520					525		
Leu	Asp	Glu	Val	Ala	Glu	Asp	Met	Gly	Lys	Cys	His	Leu	Thr	Lys
						535					540			
Lys	Gln	Ala	Leu	Glu	Ile	Arg	Ser	Ser	Leu	Ser	Glu	Lys	Arg	Ala</

[illegible]

```
<210> 1581
<211> 426
<212> DNA
<213> Homo sapiens
```

```

400> 1581
tatccgcgcac gcccggttat tgacgaggtg accttcaccc gagagggccca taactatcac
60
cgggtgcgccg aggtggctga cgcttggttc gattcgggct cgatgccctt cgcccagtg
120
ggataccccc atgtgccccg ttcgaaggag aagttcgcagt cccactaccc gggtgacttc
180
atctgtgaggg ccatacgacca gaccgcgggg tggttttaca ccataatggc cgtcggaacc
240
ctgggtgtttg acgagtcctc gtaccgcaat gtgctgtgtc tgggccacat cttggccgag
300
gacggtcgca agatgagcaa gcaccttggc aacatcctgt tgcctatccc gtcctaggat
360
tcccacggtg ccgacgcgct gcgttggttc atggcggccg acgggtcccc atggagtgca
420
cgacgc
426

```

&lt;210&gt; 1582

&lt;211&gt; 142

&lt;212&gt; PRT

&lt;213&gt; Homo sapiens

&lt;400&gt; 1582

```

Asp Pro His Arg Pro Phe Ile Asp Glu Val Thr Phe Thr Arg Glu Gly
 1              5              10              15
His Thr Tyr His Arg Val Pro Glu Val Ala Asp Ala Trp Leu Asp Ser
      20              25              30
Gly Ser Met Pro Phe Ala Gln Trp Gly Tyr Pro His Val Pro Gly Ser
      35              40              45
Lys Glu Lys Phe Glu Ser His Tyr Pro Gly Asp Phe Ile Cys Glu Ala
 50              55              60
Ile Asp Gln Thr Arg Gly Trp Phe Tyr Thr Met Ala Val Gly Thr
65              70              75              80
Leu Val Phe Asp Glu Ser Ser Tyr Arg Asn Val Leu Cys Leu Gly His
      85              90              95
Ile Leu Ala Glu Asp Gly Arg Lys Met Ser Lys His Leu Gly Asn Ile
      100             105             110
Leu Leu Pro Ile Pro Leu Met Asp Ser His Gly Ala Asp Ala Leu Arg
      115             120             125
Trp Phe Met Ala Ala Asp Gly Ser Pro Trp Ser Ala Arg Arg
      130             135             140

```

&lt;210&gt; 1583

&lt;211&gt; 450

&lt;212&gt; DNA

&lt;213&gt; Homo sapiens

&lt;400&gt; 1583

```

nnacgcgtga agggttatgg agatggttca gggagtaagg aaggtttcag ggatgggtta
60
ggggggttctg aggaaatggg gtcaatggat gaggcagggt ataggaagga tttggggcgt
120
cctaaggga taggttcagg gagtaaggca ggtttcaggg atggtttagg gagttctggg
180
gaaatgggggt caatggatga ggcagattat aggaaggatt tgggagctcc tgaggaaatg
240
ggttcaggca gttacacaga ttacaggaat ggtttaggca gttctggaaa aatcagttca
300
gggggatgagg caggttataa gaatgtttta ggggggtctg ggaggaatcc attaggggag
360
gaggcaggtt ctaggggtag ttggaggat tctgggtaca tcttgtcatg gaatgaggca
420
ggtttcaggc aaggcttttg gggaactagt
450

```

&lt;210&gt; 1584

&lt;211&gt; 150

&lt;212&gt; PRT

&lt;213&gt; Homo sapiens

&lt;400&gt; 1584

```

Xaa Arg Val Lys Gly Tyr Gly Asp Gly Ser Gly Ser Lys Glu Gly Phe

```

```

      1             5             10             15
Arg Asp Gly Leu Gly Gly Ser Glu Glu Met Gly Ser Met Asp Glu Ala
      20             25             30
Gly Tyr Arg Lys Asp Leu Gly Ala Pro Lys Gly Ile Gly Ser Gly Ser
      35             40             45
Lys Ala Gly Phe Arg Asp Gly Leu Gly Ser Ser Gly Glu Met Gly Ser
      50             55             60
Met Asp Glu Ala Asp Tyr Arg Lys Asp Leu Gly Ala Pro Glu Glu Met
      65             70             75             80
Gly Ser Gly Ser Tyr Thr Asp Tyr Arg Asn Gly Leu Gly Ser Ser Gly
      85             90             95
Lys Ile Ser Ser Gly Asp Glu Ala Gly Tyr Lys Asn Val Leu Gly Gly
      100            105            110
Ser Gly Arg Asn Pro Leu Gly Ser Glu Ala Gly Ser Arg Gly Ser Leu
      115            120            125
Glu Asp Ser Gly Tyr Ile Leu Ser Trp Asn Glu Ala Gly Ser Arg Gln
      130            135            140
Gly Phe Gly Gly Thr Ser
145             150

```

&lt;210&gt; 1585

&lt;211&gt; 596

&lt;212&gt; DNA

&lt;213&gt; Homo sapiens

&lt;400&gt; 1585

```

tgatcatctg taattcttgt ccgtgggcgt ttgaactgag aatgtcttaa gaagtggga
60
tctaataccga gctgctgctg gcaaagttgg gtgaggtctg cacagagtgc gtccatctgt
120
ggcagctgca gggcaagctg gggaggaagc gcagggtgtt gcacaggttg catcataatg
180
gaaggaaaga gcggcaggtc cagagaaacc ggcctctccc aaaaagttaa caaacactgg
240
tttagaaata cgcttttttaa ggaacgacag agaaataaag attcaccata caacttcagt
300
aacccctcta taacggtttt agaagatata agaattgata cacagccac ctcttagaa
360
cattacaaat ctgatgcata attcagtaaa aggtcttcta gaacgagatt tactgactac
420
cagcttaggg ttctgcaaga cttttttgac acaaacgctt acccaaaaga tgatgaaata
480
gaacaactct ccactgttct caatctgcct acccggtta ttgtgtatg gttccagaat
540
gctcgtcaga aagcacgaaa gagttatgag aatcaagcag aaacccttc acgcgt
596

```

&lt;210&gt; 1586

&lt;211&gt; 139

&lt;212&gt; PRT

&lt;213&gt; Homo sapiens

&lt;400&gt; 1586

Met Glu Gly Lys Ser Gly Arg Ser Arg Glu Thr Gly Leu Ser Gln Lys

```

      1           5           10           15
Val Ile Lys His Trp Phe Arg Asn Thr Leu Phe Lys Glu Arg Gln Arg
      20           25           30
Asn Lys Asp Ser Pro Tyr Asn Phe Ser Asn Pro Pro Ile Thr Val Leu
      35           40           45
Glu Asp Ile Arg Ile Asp Pro Gln Pro Thr Ser Leu Glu His Tyr Lys
      50           55           60
Ser Asp Ala Ser Phe Ser Lys Arg Ser Ser Arg Thr Arg Phe Thr Asp
      65           70           75           80
Tyr Gln Leu Arg Val Leu Gln Asp Phe Phe Asp Thr Asn Ala Tyr Pro
      85           90           95
Lys Asp Asp Glu Ile Glu Gln Leu Ser Thr Val Leu Asn Leu Pro Thr
      100          105          110
Arg Val Ile Val Val Trp Phe Gln Asn Ala Arg Gln Lys Ala Arg Lys
      115          120          125
Ser Tyr Glu Asn Gln Ala Glu Thr Pro Ser Arg
      130          135

```

&lt;210&gt; 1587

&lt;211&gt; 501

&lt;212&gt; DNA

&lt;213&gt; Homo sapiens

&lt;400&gt; 1587

```

tgtacacaca gtgatttggg gtccttttttc ctaaaacagc ttcctttatca ggactttgga
60
attctgggtg agatagaaac actgaaaaca gggcggaagt tttttcttct ggcttcttag
120
tccacggagg gctcagcgtg gagaggatat gccgtggcat tctccctggg agaccacaca
180
tgttcccgac agctcagacc ccagaccgca tgtgtcctctg acagctcaga cccagaccg
240
cgcgtgtctc tgacagctca gaccccgagc cgcaggtgct cccgacagct cagaccccg
300
accgcgggtg ctccctgacag ctccagacccc agaccgcgcg tgcctccgac agctcagacc
360
ccagaccgcg ggtgtcctctg acagctcaga cccagaccg cgcgtgtctc cgacagctca
420
gaccccgagc cgcgggtgct cctgacagct cagaccccg accgcgggtg ctccctgacag
480
ctcagacccc agaccgcgcg t
501

```

&lt;210&gt; 1588

&lt;211&gt; 86

&lt;212&gt; PRT

&lt;213&gt; Homo sapiens

&lt;400&gt; 1588

```

Ser Thr Glu Gly Ser Ala Trp Arg Gly Tyr Ala Val Ala Phe Ser Leu
1           5           10           15
Gly Asp His Thr Cys Ser Arg Gln Leu Arg Pro Gln Thr Ala Cys Ala
      20           25           30
Pro Asp Ser Ser Asp Pro Arg Pro Arg Val Leu Leu Thr Ala Gln Thr

```

```

      35              40              45
Pro Asp Arg Arg Cys Ser Arg Gln Leu Arg Pro Gln Thr Ala Gly Ala
  50              55              60
Pro Asp Ser Ser Asp Pro Arg Pro Arg Val Leu Pro Thr Ala Gln Thr
  65              70              75              80
Pro Asp Arg Gly Cys Ser
      85

```

&lt;210&gt; 1589

&lt;211&gt; 407

&lt;212&gt; DNA

&lt;213&gt; Homo sapiens

&lt;400&gt; 1589

```

aagcttgctg gggacaccct ttttacgggg cctcgtgggg gaggagttac ctgcattgac
  60
tccaccgggt ccactaacgc cgacatggct gctttcgtgc gagcaggggg aacgtctttc
  120
tgcctactcg ttgctgacca ccaagagggc gggcgtggac gggtcacgcg cagttggcag
  180
gatgtccccg gtacgagttt ggcgatctca gcgttgggtc ccaatgatcg tccgtcgcag
  240
gactggggct ggctgctgat ggttgcgggg ctcgctgttg tcaaggtcat caaggaggtc
  300
ggtggggctg accgttcccg agtgacgctg aagtggccca atgatgtgct cgtggatctg
  360
gacactgacc agggcgggcaa agtgtgcgga attctctcag aacgcgt
  407

```

&lt;210&gt; 1590

&lt;211&gt; 135

&lt;212&gt; PRT

&lt;213&gt; Homo sapiens

&lt;400&gt; 1590

```

Lys Leu Ala Gly Asp Thr Leu Phe Thr Gly Pro Arg Gly Gly Val
  1      5      10      15
Thr Cys Ile Asp Ser Thr Gly Ser Thr Asn Ala Asp Met Ala Ala Phe
      20      25      30
Val Arg Ala Gly Gly Thr Ser Phe Cys Leu Leu Val Ala Asp His Gln
      35      40      45
Glu Gly Gly Arg Gly Arg Phe Thr Arg Ser Trp Gln Asp Val Pro Gly
      50      55      60
Thr Ser Leu Ala Ile Ser Ala Leu Val Pro Asn Asp Arg Pro Ser Gln
      65      70      75      80
Asp Trp Gly Trp Leu Ser Met Val Ala Gly Leu Ala Val Val Lys Val
      85      90      95
Ile Lys Glu Val Gly Gly Ala Asp Arg Ser Arg Val Thr Leu Lys Trp
      100      105      110
Pro Asn Asp Val Leu Val Asp Leu Asp Thr Asp Gln Gly Lys Val
      115      120      125
Cys Gly Ile Leu Ser Glu Arg
      130      135

```

<210> 1591  
 <211> 424  
 <212> DNA  
 <213> Homo sapiens

<400> 1591  
 agatctctct ccttgagata acccaggctt tagaaccaaa gagctgagag accctgtccc  
 60  
 ttcagagagg cacttgacc tagaggagtc tctgggaagc agatggggat atgggacaga  
 120  
 cgcattctga aaaagccccc agatgcctcc ctatggagga cctcaccac ccacatcacc  
 180  
 agtagggagc ttgggactta cctaaccac aggggggtga ctgttgcgt ccctgcacag  
 240  
 aacgtccagc gagtcctgac ttccagccg ctgcgcttca tccaggagca cgtcctgac  
 300  
 cctgtctttg acctcagcgg cccagcagc ctggcccagc ctgtccagta ctcccttgac  
 360  
 tgtgggatcc ctggctgctc acgcccctga ggaccctcg gatctgctcc agcacgtgaa  
 420  
 attt  
 424

<210> 1592  
 <211> 95  
 <212> PRT  
 <213> Homo sapiens

<400> 1592  
 Met Gly Ile Trp Asp Arg Arg Ile Leu Lys Lys Pro Pro Asp Ala Ser  
 1 5 10 15  
 Leu Trp Arg Thr Ser Pro Thr His Ile Thr Ser Arg Glu Leu Gly Thr  
 20 25 30  
 Tyr Pro Asn His Arg Gly Val Thr Val Val Val Pro Ala Gln Asn Val  
 35 40 45  
 Gln Arg Val Leu Thr Phe Gln Pro Leu Arg Phe Ile Gln Glu His Val  
 50 55 60  
 Leu Ile Pro Val Phe Asp Leu Ser Gly Pro Ser Ser Leu Ala Gln Pro  
 65 70 75 80  
 Val Gln Tyr Ser Leu Asp Cys Gly Ile Pro Gly Cys Ser Arg Pro  
 85 90 95

<210> 1593  
 <211> 1678  
 <212> DNA  
 <213> Homo sapiens

<400> 1593  
 cttgaatcta aaataaatga aataaacaca gaaattaacc agttgattga aaagaaaatg  
 60  
 atgagaaatg agcccattga aggcacactc tcaactgtata ggcaacaggc atctatcatt  
 120  
 tcccgtaaaa aagaagccaa agctgaggaa cttcaggagg ccaaggagaa gttagccagc  
 180

ctagagagag aagcatcagt aaagagaaat cagacccgtg aatttgatgg tactgaagtt  
240  
ttaaagggag atgagttcaa acgatatgtc aataaacttc gaagcaagag tacagttttc  
300  
aaaaagaagc atcacataat agctgaactt aaagctgaat tcggtctttt gcagaggact  
360  
gaagaacttc ttaagcaacg tcatgaaat attcaacaac aactgcaaac tatggaggag  
420  
aaaaagggta tatctggata tagttacacc caagaagagc tagaaagagt atctgcactg  
480  
aagagtgaag ttgatgaaat gaaaggacga acattggatg atatgtctga aatggtgaaa  
540  
aaactgtatt cattgtgtatc tgaaaagaag tcagctcttg cctcagttat aaaagagcta  
600  
cgacagtgtc gtcaaaaaa tcaagaactg acccaggagt gtgatgaaaa gaaatcccag  
660  
tatgatagct gtgcgcagg cctcgaaagc aatcggtcca aattagaaca ggaagttaga  
720  
agactccgtg aagaatgtct tcaagaagaa agtagatacc attatacaaa ttgtatgatt  
780  
aagaacctag aagttcaact tcgtcgtgct actgatgaga tgaaggcata tatctcttct  
840  
gatcaacaag aaaaaagaaa ggcaattagg gaacagtata ccaaaaatc tgctgaacaa  
900  
gaaaaccttg gaaagaaact tcgggaaaaa caaaaagtta tacgagaaa gtcattgtcca  
960  
aatatgaac aagcaaaaat gtggcgtgat ttggaacaat taatggaatg taagaacag  
1020  
tgcttttctga aacaacaaag ccaaacttcc attggtcagg taattcagga ggggtgggag  
1080  
gaccggctaa tactgtgaat tcttgtgtca tcgtttgggg ttttacttga taccactagc  
1140  
tataagccta atctcataat gtattttctt tttgaaactg atttgtttag cattttgttt  
1200  
tcagaagagc cattctttat taagttttca tagaaaataa tgttaaggta gatttagttt  
1260  
gaatgttttt tcatatgaaa aagaggcttt tattcttttc catagtttag acatcactgg  
1320  
cgtcttctga gttttatgag acaggaaact aagtttacta tctgtaaatg taacatgatg  
1380  
tccattaaga aacatgtagt ttttttttag aatgtaataa cccagtgget tactgttttt  
1440  
cttaactctt tttaaaaaaa ctttagaaga atcttttagg aactaatatc tcttgttctg  
1500  
aagaaacatt tatctgacgt tcagcagttc ctacagtttt acttcagttt atttttcttc  
1560  
tgtaaaatgc aagaaaattt aatattttga ctaacatgtc ttttctgttt gtatcattta  
1620  
aaggcaaata aacttggtac gtatttcata tctatttaaa aaatgaaaa aaaaaaaa  
1678

&lt;210&gt; 1594

&lt;211&gt; 365

&lt;212&gt; PRT

&lt;213&gt; Homo sapiens

&lt;400&gt; 1594

```

Leu Glu Ser Lys Ile Asn Glu Ile Asn Thr Glu Ile Asn Gln Leu Ile
 1          5          10
Glu Lys Lys Met Met Arg Asn Glu Pro Ile Glu Gly Lys Leu Ser Leu
 20          25          30
Tyr Arg Gln Gln Ala Ser Ile Ile Ser Arg Lys Lys Glu Ala Lys Ala
 35          40          45
Glu Glu Leu Gln Glu Ala Lys Glu Lys Leu Ala Ser Leu Glu Arg Glu
 50          55          60
Ala Ser Val Lys Arg Asn Gln Thr Arg Glu Phe Asp Gly Thr Glu Val
 65          70          75          80
Leu Lys Gly Asp Glu Phe Lys Arg Tyr Val Asn Lys Leu Arg Ser Lys
 85          90          95
Ser Thr Val Phe Lys Lys Lys His His Ile Ile Ala Glu Leu Lys Ala
100          105          110
Glu Phe Gly Leu Leu Gln Arg Thr Glu Glu Leu Leu Lys Gln Arg His
115          120          125
Glu Asn Ile Gln Gln Gln Leu Gln Thr Met Glu Glu Lys Lys Gly Ile
130          135          140
Ser Gly Tyr Ser Tyr Thr Gln Glu Glu Leu Glu Arg Val Ser Ala Leu
145          150          155          160
Lys Ser Glu Val Asp Glu Met Lys Gly Arg Thr Leu Asp Asp Met Ser
165          170          175
Glu Met Val Lys Lys Leu Tyr Ser Leu Val Ser Glu Lys Lys Ser Ala
180          185          190
Leu Ala Ser Val Ile Lys Glu Leu Arg Gln Leu Arg Gln Lys Tyr Gln
195          200          205
Glu Leu Thr Gln Glu Cys Asp Glu Lys Lys Ser Gln Tyr Asp Ser Cys
210          215          220
Ala Ala Gly Leu Glu Ser Asn Arg Ser Lys Leu Glu Gln Glu Val Arg
225          230          235          240
Arg Leu Arg Glu Glu Cys Leu Gln Glu Glu Ser Arg Tyr His Tyr Thr
245          250          255
Asn Cys Met Ile Lys Asn Leu Glu Val Gln Leu Arg Arg Ala Thr Asp
260          265          270
Glu Met Lys Ala Tyr Ile Ser Ser Asp Gln Gln Glu Lys Arg Lys Ala
275          280          285
Ile Arg Glu Gln Tyr Thr Lys Asn Thr Ala Glu Gln Glu Asn Leu Gly
290          295          300
Lys Lys Leu Arg Glu Lys Gln Lys Val Ile Arg Glu Ser His Gly Pro
305          310          315
Asn Met Lys Gln Ala Lys Met Trp Arg Asp Leu Glu Gln Leu Met Glu
325          330          335
Cys Lys Lys Gln Cys Phe Leu Lys Gln Gln Ser Gln Thr Ser Ile Gly
340          345          350
Gln Val Ile Gln Glu Gly Gly Glu Asp Arg Leu Ile Leu
355          360          365

```

&lt;210&gt; 1595

&lt;211&gt; 559

&lt;212&gt; DNA

&lt;213&gt; Homo sapiens

```

<400> 1595
accggtcccg ctcacaggcc cacacctgct tctcctcctg gggcagggca gcctgggtggg
60
gcatggccgg ggagccgccc acttggcgag gaacaggctc catagcgacc tcagaacact
120
ggtgctgggg cccagccagg gagagcatct tcccgctggg accttccccg gggcggtcca
180
tcccttgtag atgtaggggtg cagctgagat ggtggcgccc ccattctctg tgttcgccag
240
cctgggctgg ggggtactagg atcacccctg ggctgatgag gagccccgggt cttgggcagt
300
taccaagtgg ggggtcacag tctggaagt ggtggaacca agggagcggc ctcgcccagg
360
ccacactctc aaatactggc cctcgacaaa aggcagctgg gctctcaaga cagggccacc
420
tcctctctgc tgggcccgcg cccgtggaga gcaagtggga actgacccta tcttctgtcc
480
cagcttgtag agccagcatc aaggtcaggc ctcacttgcc caagaaagag gagtgaggag
540
gcccaactgga ggaacgcgt
559

```

```

<210> 1596
<211> 166
<212> PRT
<213> Homo sapiens

```

```

<400> 1596
Met Leu Ala Leu Gln Ala Gly Thr Glu Asp Arg Val Ser Ser His Leu
1 5 10 15
Leu Ser Thr Gly Ala Gly Pro Ala Glu Arg Arg Trp Pro Cys Leu Glu
20 25 30
Ser Pro Ala Ala Phe Cys Arg Gly Pro Val Phe Glu Ser Val Ala Trp
35 40 45
Ala Arg Pro Leu Pro Trp Phe His His Phe Pro Asp Cys Asp Pro Pro
50 55 60
Leu Gly Asn Cys Pro Arg Pro Gly Leu Leu Ile Ser Pro Arg Val Ile
65 70 75 80
Leu Val Pro Pro Ala Gln Ala Gly Glu Gln Gln Glu Trp Gly Arg His
85 90 95
His Leu Ser Cys Thr Leu His Leu Gln Gly Met Ser Arg Pro Gly Glu
100 105 110
Gly Pro Ser Gly Lys Met Leu Ser Leu Ala Gly Pro Gln His Gln Cys
115 120 125
Ser Glu Val Ala Met Glu Pro Val Pro Arg Gln Val Gly Gly Ser Pro
130 135 140
Ala Met Pro His Gln Ala Ala Leu Pro Gln Glu Glu Lys Gln Val Trp
145 150 155 160
Ala Cys Glu Arg Asp Arg
165

```

```

<210> 1597
<211> 609

```

&lt;212&gt; DNA

&lt;213&gt; Homo sapiens

&lt;400&gt; 1597

tcgtcaacgg aaacttcggc cttcgggcct acccataatc cttgggacct tgaacgggta  
 60  
 ccgggtggtt ccgggtgttg ttcagcagct agcttggtt cctttcaggc cccgttggtt  
 120  
 ttgggacctg ataccggggg ctcgatccgc caacctggag cggtagaccg caccgtcggg  
 180  
 atcaagccga cctacggttc gacctccga tacggcggtta tcgctatggc ttcattcttg  
 240  
 gatactcctg ggccctgcgc ccgtaccgtc cttgacgccg cgttgctcca tcaggccatt  
 300  
 gccggtcacg acgctatgga ccagaccacg attaatcagc ccaccccgcc ggctcgttag  
 360  
 gctgcgcggc aggcagacgt ttccgggggt cgcattggcg ttgtcacgga gttgacggg  
 420  
 cagggttacg accctcaggt cgaggcccg ttcacgagg ctgtcgagat gctaatagag  
 480  
 gcgggggctg aggtcgttga ggtctcttgc ccgaactttg acctgcctt acctgcttat  
 540  
 taccttattc agcctgcga ggtgtctagc aacctggctc gttacgacgc catgcgttac  
 600  
 ggcttacgc  
 609

&lt;210&gt; 1598

&lt;211&gt; 203

&lt;212&gt; PRT

&lt;213&gt; Homo sapiens

&lt;400&gt; 1598

Ser Ser Thr Glu Thr Ser Ala Phe Gly Pro Thr His Asn Pro Trp Asp  
 1 5 10 15  
 Leu Glu Arg Val Pro Gly Gly Ser Gly Gly Gly Ser Ala Ala Ser Leu  
 20 25 30  
 Ala Ser Phe Gln Ala Pro Leu Ala Leu Gly Thr Asp Thr Gly Gly Ser  
 35 40 45  
 Ile Arg Gln Pro Gly Ala Val Thr Gly Thr Val Gly Ile Lys Pro Thr  
 50 55 60  
 Tyr Gly Ser Thr Ser Arg Tyr Gly Val Ile Ala Met Ala Ser Ser Leu  
 65 70 75 80  
 Asp Thr Pro Gly Pro Cys Ala Arg Thr Val Leu Asp Ala Ala Leu Leu  
 85 90 95  
 His Gln Ala Ile Ala Gly His Asp Ala Met Asp Gln Thr Thr Ile Asn  
 100 105 110  
 Gln Pro Thr Pro Ala Val Val Glu Ala Ala Arg Gln Ala Asp Val Ser  
 115 120 125  
 Gly Val Arg Ile Gly Val Val Thr Glu Leu Ser Gly Gln Gly Tyr Asp  
 130 135 140  
 Pro Gln Val Glu Ala Arg Phe His Glu Ala Val Glu Met Leu Ile Glu  
 145 150 155 160  
 Ala Gly Ala Glu Val Val Glu Val Ser Cys Pro Asn Phe Asp Leu Ala

```

                165                170                175
Leu Pro Ala Tyr Tyr Leu Ile Gln Pro Ala Glu Val Ser Ser Asn Leu
                180                185                190
Ala Arg Tyr Asp Ala Met Arg Tyr Gly Leu Arg
                195                200

```

<210> 1599  
 <211> 526  
 <212> DNA  
 <213> Homo sapiens

```

<400> 1599
gcgtggcoga cggctgctgt gtggtcagcg atctttattt ttcttgatcg attcagaacc
60
cggcacctgc acgtgtgggt tctctgcttt tggtggggag cgtgcgtcgc gacctggatt
120
agcatgcacg tgaacacgtg gatggccggg atgctctcgg tgacaggtgg ggttgatcca
180
gcatcggggc cgggtccggc agtgatttcg gctccctttg ttgaggaatc atgcaaggcg
240
cttggtcttt tcgcgctggc catcggcatg gggcgacgga tgacctcggt agttcagacg
300
gtgagcatgg ccgggctctc ggcaattggt ttgcctttg ttgagaacat tatgtactac
360
gcccgtgcag ataactacgc ccgtgtgacg gcttcgggtg gggaccccaa acaaggcggt
420
gatgaagtgt gtgctgttgc ggggagtgtg tgcctcgttt gggcatccgc tgttcaccag
480
catgacgggt atcgggtctg cccttgggct gaggtcacga agttga
526

```

<210> 1600  
 <211> 134  
 <212> PRT  
 <213> Homo sapiens

```

<400> 1600
Met His Val Asn Thr Trp Met Ala Gly Met Leu Ser Val Thr Gly Gly
1      5      10      15
Val Asp Pro Ala Ser Gly Ala Gly Pro Ala Val Tyr Ser Ala Pro Phe
20     25     30
Val Glu Glu Ser Cys Lys Ala Leu Val Leu Phe Ala Leu Ala Ile Gly
35     40     45
Met Gly Arg Arg Met Thr Ser Val Val Gln Thr Val Ser Met Ala Gly
50     55     60
Leu Ser Ala Ile Gly Phe Ala Phe Val Glu Asn Ile Met Tyr Tyr Ala
65     70     75     80
Arg Ala Asp Asn Tyr Ala Arg Val Thr Ala Ser Gly Gly Asp Pro Lys
85     90     95
Gln Gly Val Asp Glu Val Gly Ala Val Ala Gly Ser Val Cys Leu Val
100    105    110
Trp Ala Ser Ala Val His Gln His Asp Gly Tyr Arg Ser Gly Pro Trp
115    120    125
Ala Glu Val Thr Lys Leu

```

130

&lt;210&gt; 1601

&lt;211&gt; 447

&lt;212&gt; DNA

&lt;213&gt; Homo sapiens

&lt;400&gt; 1601

gcccggccgcc ccgtttccgc agattctgga ggagtgccga tggccgagtt catctacacc  
 60  
 atgcacaacg tccgaaaggc ggtgggtgac aaagttatcc ttgacaatgt cacgctgtcg  
 120  
 ttcttcccg gcgccaagat tggtgtgtgc ggaccgaatg gcgctggcaa atcgacgatg  
 180  
 ctcaagctca tggctggtct cgataagccc aataacggcg atgccaaactt ggctaaaggc  
 240  
 gccaccgtcg gaattctgct tcaggagccc cgcctcaccg aggacaaaac tgttcgcgag  
 300  
 aacgtcgaag aggccgtcgg cgacatcaaa gccaaagctgg cacgggttcca ggaagtctcc  
 360  
 gccgagatgg ccaacctga cgccgacttt gacgccctga tggcggagat gggtagagctg  
 420  
 cagaccgagc tcgataacgc caacgcg  
 447

&lt;210&gt; 1602

&lt;211&gt; 136

&lt;212&gt; PRT

&lt;213&gt; Homo sapiens

&lt;400&gt; 1602

Met	Ala	Glu	Phe	Ile	Tyr	Thr	Met	His	Asn	Val	Arg	Lys	Ala	Val	Gly
1				5					10					15	
Asp	Lys	Val	Ile	Leu	Asp	Asn	Val	Thr	Leu	Ser	Phe	Phe	Pro	Gly	Ala
			20				25						30		
Lys	Ile	Gly	Val	Val	Gly	Pro	Asn	Gly	Ala	Gly	Lys	Ser	Thr	Met	Leu
	35					40					45				
Lys	Leu	Met	Ala	Gly	Leu	Asp	Lys	Pro	Asn	Asn	Gly	Asp	Ala	Asn	Leu
	50				55				60						
Ala	Lys	Gly	Ala	Thr	Val	Gly	Ile	Leu	Leu	Gln	Glu	Pro	Pro	Leu	Thr
65					70				75					80	
Glu	Asp	Lys	Thr	Val	Arg	Glu	Asn	Val	Glu	Glu	Ala	Val	Gly	Asp	Ile
			85				90						95		
Lys	Ala	Lys	Leu	Ala	Arg	Phe	Glu	Glu	Val	Ser	Ala	Glu	Met	Ala	Asn
			100				105						110		
Pro	Asp	Ala	Asp	Phe	Asp	Ala	Leu	Met	Ala	Glu	Met	Gly	Glu	Leu	Gln
			115				120					125			
Thr	Glu	Leu	Asp	Asn	Ala	Asn	Ala								
	130					135									

&lt;210&gt; 1603

&lt;211&gt; 540

&lt;212&gt; DNA

&lt;213&gt; Homo sapiens

&lt;400&gt; 1603

acgcgtaagc tcaccgaagc catgatggca atgctgctgg aactgcatta cagcaagcag  
 60  
 gaaatccttg aggcgtacct caacgagggtc ttcgtcgggtc aggatggcca gcgcgccgtg  
 120  
 cacgggtttg gcttgccag tcagttcttc tttggccagc ctttgtccga gctgaagttg  
 180  
 catcaagtcg cgttggttgg cgggatgggtc aagggcccggt cctattacaa cccgcggcgc  
 240  
 aatccggaac gtgcgctcga gcgtcgtaac ctggtgctgg atgtgctgga acagcagggt  
 300  
 gtagccactg ccgaacaagt cgctgccgca aagaaaatgc cgctgggtgt aaccactcgc  
 360  
 ggcaagctgg cggacagctc cttcccaggc tttatcgacc tggtaaacgc ccagttgctg  
 420  
 gaagattacc gcgacgaaga cttgaccgaa gaaggcctgc ggattttcac cagtttcgac  
 480  
 ccgattctgc agatgaaagc cgaagcatcg gtgaacgaca cattcaagcg cctgaccggc  
 540

&lt;210&gt; 1604

&lt;211&gt; 180

&lt;212&gt; PRT

&lt;213&gt; Homo sapiens

&lt;400&gt; 1604

Thr	Arg	Lys	Leu	Thr	Glu	Ala	Met	Met	Ala	Met	Leu	Leu	Glu	Leu	His
1				5					10					15	
Tyr	Ser	Lys	Gln	Glu	Ile	Leu	Glu	Ala	Tyr	Leu	Asn	Glu	Val	Phe	Val
			20					25					30		
Gly	Gln	Asp	Gly	Gln	Arg	Ala	Val	His	Gly	Phe	Gly	Leu	Ala	Ser	Gln
			35				40					45			
Phe	Phe	Phe	Gly	Gln	Pro	Leu	Ser	Glu	Leu	Lys	Leu	His	Gln	Val	Ala
	50				55					60					
Leu	Leu	Val	Gly	Met	Val	Lys	Gly	Pro	Ser	Tyr	Tyr	Asn	Pro	Arg	Arg
65					70					75				80	
Asn	Pro	Glu	Arg	Ala	Leu	Glu	Arg	Arg	Asn	Leu	Val	Leu	Asp	Val	Leu
				85					90					95	
Glu	Gln	Gln	Gly	Val	Ala	Thr	Ala	Glu	Gln	Val	Ala	Ala	Ala	Lys	Lys
			100					105					110		
Met	Pro	Leu	Gly	Val	Thr	Thr	Arg	Gly	Lys	Leu	Ala	Asp	Ser	Ser	Phe
			115					120					125		
Pro	Gly	Phe	Ile	Asp	Leu	Val	Lys	Arg	Gln	Leu	Arg	Glu	Asp	Tyr	Arg
	130					135					140				
Asp	Glu	Asp	Leu	Thr	Glu	Glu	Gly	Leu	Arg	Ile	Phe	Thr	Ser	Phe	Asp
145					150				155					160	
Pro	Ile	Leu	Gln	Met	Lys	Ala	Glu	Ala	Ser	Val	Asn	Asp	Thr	Phe	Lys
				165					170					175	
Arg	Leu	Thr	Gly												
			180												

&lt;210&gt; 1605

&lt;211&gt; 427

&lt;212&gt; DNA

&lt;213&gt; Homo sapiens

&lt;400&gt; 1605

acgcgttggt gcggtcggtc gcacgcagtc cgtccaagag gtacaggcca gcgttgccgc  
 60  
 cattctttgc gggcggtgac tgcactggga tattcgggcc catcgccgtg gaccacacat  
 120  
 cgcagcgctg gacccaccag cccacctggt cccactcgca cgtgccagta ctgtccgcac  
 180  
 gcaagaaatc gcggtgagct gcgtgcccct gctgggtgcc gcctgccact acggcaagac  
 240  
 ccagcgctac ggcgactgcc atgatgaccg aaaggacgcg acccctaata gatgcagtca  
 300  
 tctttctcct tcacaaagta ttggttaatt gtcacttagc tttatcgctc ggaatctgtg  
 360  
 aaccgttaac atcccgcgcg ggaagctaac tagcaagcag tetaatgcac tcccggggcca  
 420  
 aatgttg  
 427

&lt;210&gt; 1606

&lt;211&gt; 100

&lt;212&gt; PRT

&lt;213&gt; Homo sapiens

&lt;400&gt; 1606

Met	Thr	Ala	Ser	Ile	Arg	Gly	Arg	Val	Leu	Ser	Val	Ile	Met	Ala	Val
1			5						10				15		
Ala	Val	Ala	Leu	Gly	Leu	Ala	Val	Val	Ala	Gly	Gly	Thr	Gln	Gln	Ala
		20					25					30			
His	Ala	Ala	His	Arg	Asp	Phe	Leu	Arg	Ala	Asp	Ser	Thr	Gly	Thr	Cys
		35				40					45				
Glu	Trp	Asp	Gln	Val	Gly	Trp	Trp	Val	Gln	Arg	Cys	Asp	Val	Trp	Ser
	50				55						60				
Gln	Ala	Met	Gly	Arg	Asn	Ile	Pro	Val	Gln	Ile	Pro	Pro	Ala	Lys	Asn
65				70			75							80	
Gly	Gly	Asn	Ala	Gly	Leu	Tyr	Leu	Leu	Asp	Gly	Leu	Arg	Ala	Thr	Asp
		85					90						95		
Arg	Thr	Asn	Ala												
			100												

&lt;210&gt; 1607

&lt;211&gt; 396

&lt;212&gt; DNA

&lt;213&gt; Homo sapiens

&lt;400&gt; 1607

gcacggctcc gctcgcggtc gccgtgatgg tacataccgg cgcgaccgtg atcgattctt  
 60  
 tgccgcaagg caatttactt ccacgtcacg gccgatgcga tgaagatgac gattcgtaac  
 120  
 cggatgggac tgatcccgtc cgaggcgatc gtggcgggga cgatgatgat cgtggcgagc  
 180

ttgctgtacg gattcatttt gtagcataaa taaggagggg ttcatgaac aggaaaaccc ,  
 240  
 tttctgttgg caccgatc gttcaaggaa agcatgacgg caaaagaagt ctgtatcgcg  
 300  
 atggaaaaag gactgagcgg cgtctacccc gacgccgggt ttatccatgt gccgatggcg  
 360  
 gacggaggcg aaggcacggg gcagtcgctg gtcgac  
 396

<210> 1608  
 <211> 56  
 <212> PRT  
 <213> Homo sapiens

<400> 1608  
 Thr Gly Lys Pro Phe Leu Leu Ala Pro Asp Ser Phe Lys Glu Ser Met  
 1 5 10 15  
 Thr Ala Lys Glu Val Cys Ile Ala Met Glu Lys Gly Leu Ser Arg Val  
 20 25 30  
 Tyr Pro Asp Ala Arg Phe Ile His Val Pro Met Ala Asp Gly Gly Glu  
 35 40 45  
 Gly Thr Val Gln Ser Leu Val Asp  
 50 55

<210> 1609  
 <211> 505  
 <212> DNA  
 <213> Homo sapiens

<400> 1609  
 acgcgtagat gccacagcgc caggacacac gccaccgcgg agccgaggat gatccacatg  
 60  
 ggctcgactc acatggacgc catggattcg gcagtggaga gcaggccgcg agcttcgcac  
 120  
 gcggcccgac tgcgtagtcg cgtcatctca gtgcacatct gttcttcccc gtcgatggag  
 180  
 ttccggcggt aggacatcgt tacgtccagc atgggtggcg tctcagcaat gtcacagccg  
 240  
 gccttctgga gggcgaggag ccgagcgcgc gtgcttcctg ctggcacgat gcgttcacgt  
 300  
 gctgcgttga tgcgtcgat actgatatgc aggatgcgcg cggggtcgaa gacggggaat  
 360  
 ggggtgaatt ggacgggtccc ccctggccag cgagtcggtg gacgattcga ctggggacat  
 420  
 gcgcgagcag ggcgacgaca cgccacggaa cgcggcattc atggacgagg gaacggacat  
 480  
 ggagcggaga aaacggggcg tcgac  
 505

<210> 1610  
 <211> 129  
 <212> PRT  
 <213> Homo sapiens

&lt;400&gt; 1610

```

Met Pro Arg Ser Val Ala Cys Arg Arg Pro Ala Arg Ala Cys Pro Gln
 1           5           10           15
Ser Asn Arg Pro Thr Thr Arg Trp Pro Gly Gly Thr Val Gln Phe Thr
      20           25           30
Pro Phe Pro Val Phe Asp Pro Gly Arg Ile Leu His Ile Ser Ile Asp
      35           40           45
Asp Ile Asn Ala Ala Arg Glu Arg Ile Val Pro Ala Gly Ser Thr Arg
      50           55           60
Ala Arg Leu Leu Ala Leu His Lys Ala Gly Cys Asp Ile Ala Glu Ile
65           70           75           80
Ala Thr Met Leu Asp Val Thr Met Ser Tyr Ala Ala Asn Leu Met Ser
      85           90           95
Gly Glu Glu Gln Met Cys Thr Glu Met Thr Arg Leu Arg Ser Arg Ala
      100          105          110
Ala Cys Glu Ala Arg Gly Leu Leu Ser Thr Ala Glu Ser Met Ala Ser
      115          120          125
Met

```

&lt;210&gt; 1611

&lt;211&gt; 532

&lt;212&gt; DNA

&lt;213&gt; Homo sapiens

&lt;400&gt; 1611

```

acgcgtgctg cggttacagt tgcgtctatt gatttaggtg cgcatccaga atttttagga
60
aaaaaatgata ttcaattagg caaaaaagaa tctgtagagg atactgcgaa agtattaggt
120
agaatgttcg atggtattga attccgtggt ttttcacaac aagctggtga agatttagcg
180
aagttctctg gtgtaccggg gtggaatgga ttaacagacg attggcatcc tacacaaatg
240
ttagctgatt ttatgacaat aaaagagaat tttggatatc tagaaggaat aaacttaact
300
tacgttgagg atggacgtaa taatattgcg cattcattaa tggtagcagg tgctatgtta
360
gggtgttaatg taagaatttg tacacctaaa tcattaatat caaaagaggc atatgttgat
420
attgcaaaag aaaagcgag tcaatatggt gggttcagta tgattacgga taatattgca
480
gaagcagttg aaaatacaga tgctatatat acagatgttt ggggtatcgac gg
532

```

&lt;210&gt; 1612

&lt;211&gt; 177

&lt;212&gt; PRT

&lt;213&gt; Homo sapiens

&lt;400&gt; 1612

```

Thr Arg Ala Ala Phe Thr Val Ala Ser Ile Asp Leu Gly Ala His Pro
 1           5           10           15
Glu Phe Leu Gly Lys Asn Asp Ile Gln Leu Gly Lys Lys Glu Ser Val

```

```

                20                25                30
Glu Asp Thr Ala Lys Val Leu Gly Arg Met Phe Asp Gly Ile Glu Phe
   35
Arg Gly Phe Ser Gln Gln Ala Gly Glu Asp Leu Ala Lys Phe Ser Gly
   50
Val Pro Gly Trp Asn Gly Leu Thr Asp Asp Trp His Pro Thr Gln Met
   65
Leu Ala Asp Phe Met Thr Ile Lys Glu Asn Phe Gly Tyr Leu Glu Gly
   85
Ile Asn Leu Thr Tyr Val Gly Asp Gly Arg Asn Asn Ile Ala His Ser
  100
Leu Met Val Ala Gly Ala Met Leu Gly Val Asn Val Arg Ile Cys Thr
  115
Pro Lys Ser Leu Asn Pro Lys Glu Ala Tyr Val Asp Ile Ala Lys Glu
  130
Lys Ala Ser Gln Tyr Gly Gly Ser Val Met Ile Thr Asp Asn Ile Ala
  145
Glu Ala Val Glu Asn Thr Asp Ala Ile Tyr Thr Asp Val Trp Val Ser
  165
Thr
  170
  175

```

```

<210> 1613
<211> 584
<212> DNA
<213> Homo sapiens

```

```

<400> 1613
nnacgcgttc agccgagaaa tatgctgctt ttgctgcc acctcacaaa tgctacggca
60
caggggctcc aggttttgcg cctcctggta cggtgctaca cacttgctca cctcccagcg
120
gtatcaatac aacttgcgaa atgcagacaa ggcccaggcc taagacatgg tagacataca
180
tatatacaag gaattcacta tatattgggt gaaaggagat ctccccgttc ctgtttcttc
240
tctgcgcgat cctgtgaagc gttcaggggag gtcgacatgg ataagtgcg tatgctggc
300
acggtaaaagt gtcgcgggct tgtagatgcg tgtgaacgtt ttcgtgactt gaagaggtcg
360
aagctgatgt gttcgcgtga gtcgatgca gcgcgctgcg ttgcgtgcct tgtggctgat
420
cgctgcctcc atccgataga atgcggagtt gtattttcgt agtactgtct gacaatgcca
480
gtgggagagg cgatgagttc ctcatttgcg tctttctcga ggtcttggtc catgtccata
540
aacataccaa agctggatgg gtcatacgac ggccgagcat gcat
584

```

```

<210> 1614
<211> 153
<212> PRT
<213> Homo sapiens

```

&lt;400&gt; 1614

```

Xaa Arg Val Gln Pro Arg Asn Met Leu Leu Phe Ala Cys His Leu Thr
 1           5           10           15
Asn Ala Thr Ala Gln Gly Val Gln Val Leu Arg Leu Val Arg Cys
 20           25           30
Tyr Thr Leu Ala His Leu Pro Ala Val Ser Ile Gln Leu Ala Lys Cys
 35           40           45
Arg Gln Gly Pro Gly Leu Arg His Gly Arg His Thr Tyr Ile Gln Gly
 50           55           60
Ile His Tyr Ile Leu Gly Glu Arg Arg Ser Ser Arg Ser Cys Ser Ser
 65           70           75           80
Ser Ala Ala Ser Cys Glu Ala Phe Arg Glu Val Asp Met Asp Asn Val
 85           90           95
Arg Met Pro Gly Thr Val Lys Cys Arg Gly Leu Val Asp Ala Cys Glu
100           105           110
Arg Phe Arg Asp Leu Lys Arg Ser Lys Leu Met Cys Ser Arg Glu Leu
115           120           125
Asp Ala Ala Arg Cys Val Ala Cys Leu Val Val Asp Arg Arg Pro Asp
130           135           140
Pro Ile Glu Cys Gly Val Val Phe Ser
145           150

```

&lt;210&gt; 1615

&lt;211&gt; 363

&lt;212&gt; DNA

&lt;213&gt; Homo sapiens

&lt;400&gt; 1615

```

gccggcttgc ccgacgcgtc tatgggtgat gttctgtcct ctgctgcgcg gccgtggggc
 60
tcgggtgcttg tcagtgtctgg tgtcatcatt tcctgcttg gggctctact ggcctggatc
120
ctactgtgcg gtgagacgat gcaggtgccg ggtgaggacg gcaccatgcc gaaactgttc
180
ggacggatca acaaacatga ggctccagct cccgctttgt ggatcaccaa catcgtctcc
240
cagatatgcc ttgtcatgac ggtgtttggt gacggtgctt acctggcgat ggcgaccctg
300
gctgccgcgc tcactctggt gccgtacctg ctgtcagccg cattcgccct gaagatgggtg
360
atc
363

```

&lt;210&gt; 1616

&lt;211&gt; 121

&lt;212&gt; PRT

&lt;213&gt; Homo sapiens

&lt;400&gt; 1616

```

Ala Gly Leu Pro Asp Ala Ser Met Gly Asp Val Leu Ser Ser Val Val
 1           5           10           15
Gly Pro Trp Gly Ser Val Leu Val Ser Ala Gly Val Ile Ile Ser Leu
 20           25           30
Leu Gly Ala Leu Leu Ala Trp Ile Leu Leu Cys Gly Glu Thr Met Gln

```

```

          35              40              45
Val Pro Gly Glu Asp Gly Thr Met Pro Lys Leu Phe Gly Arg Ile Asn
50          55          60
Lys His Glu Ala Pro Ala Pro Ala Leu Trp Ile Thr Asn Ile Val Ser
65          70          75          80
Gln Ile Cys Leu Val Met Thr Val Leu Trp Asp Gly Ala Tyr Leu Ala
85          90          95
Met Ala Thr Leu Ala Ala Ala Leu Ile Leu Val Pro Tyr Leu Leu Ser
100        105        110
Ala Ala Phe Ala Leu Lys Met Val Ile
115        120

```

&lt;210&gt; 1617

&lt;211&gt; 447

&lt;212&gt; DNA

&lt;213&gt; Homo sapiens

&lt;400&gt; 1617

```

accggtgact acctgtggga gaagaagggc atcgttccca tcctcaagat tgataagggc
60
ctggctgacg agggctgccca cgttcgtctc atgaagccga ttcccggcct cgacgagttg
120
gtgcaccgcg ccgtcgagga gaagcacatc ttcggtacca aggagcgcgc tgtcatcctg
180
gatgacgaca aagctggcat cgaaaagatt gtcgaccagc agttcgaact ggccgaacag
240
gtgcgcgctg cgggtcttgt gccgatcctc gaaccgcagg tcgacatcca cgctccacat
300
aaggagaagg ctgaggaaaag gctgcacaac ctcatccgcg agcacatcga ctctctgcgg
360
ctcgacgccca agatcatggt gaagctgacg atcccgagtt ccgaagacct gtatgccgac
420
ctcattgcgg atccgaaggt cctacgc
447

```

&lt;210&gt; 1618

&lt;211&gt; 149

&lt;212&gt; PRT

&lt;213&gt; Homo sapiens

&lt;400&gt; 1618

```

Thr Gly Asp Tyr Leu Trp Glu Lys Lys Gly Ile Val Pro Ile Leu Lys
1          5          10          15
Ile Asp Lys Gly Leu Ala Asp Glu Gly Cys His Val Arg Leu Met Lys
20        25        30
Pro Ile Pro Gly Leu Asp Glu Leu Val His Arg Ala Val Glu Glu Lys
35        40        45
His Ile Phe Gly Thr Lys Glu Arg Ser Val Ile Leu Asp Asp Asp Lys
50        55        60
Ala Gly Ile Glu Lys Ile Val Asp Gln Gln Phe Glu Leu Ala Glu Gln
65        70        75        80
Val Arg Ala Ala Gly Leu Val Pro Ile Leu Glu Pro Glu Val Asp Ile
85        90        95
His Ala Pro His Lys Glu Lys Ala Glu Glu Arg Leu His Asn Leu Ile

```

```

          100              105              110
Arg Glu His Ile Asp Ser Leu Pro Leu Asp Ala Lys Ile Met Leu Lys
      115              120              125
Leu Thr Ile Pro Ser Ser Glu Asp Leu Tyr Ala Asp Leu Ile Ala Asp
      130              135              140
Pro Lys Val Leu Arg
145

```

```

<210> 1619
<211> 355
<212> DNA
<213> Homo sapiens

```

```

<400> 1619
nnggtaccga aacccgtgtc gctaccgcat aaaatcaaag gaactagtat gcataacgta
60
acaacaaatg gtgcctccat tcccgccctt ggccttgcca ctttcctgat gcccgcgcaa
120
gatgtgcttc gcctcgctcc ttacgcgctc aaggctgggt ttgcctatgt cgataaccgg
180
cagatttatg gcaatgaagt cgaggtcggg gaagcaattg cgacttcgg cggttcagcgt
240
ggcgacatct ttctgaccac aaaagtctgg gtagataatt ataagcatga tgctttcatc
300
gcctctgtcg atgaaagcct taccaagctt aagaccgact atgtcgatct gctgc
355

```

```

<210> 1620
<211> 118
<212> PRT
<213> Homo sapiens

```

```

<400> 1620
Xaa Val Pro Lys Pro Val Ser Leu Pro His Lys Ile Lys Gly Thr Ser
1      5      10      15
Met His Asn Val Thr Thr Asn Gly Ala Ser Ile Pro Ala Leu Gly Leu
      20      25      30
Gly Thr Phe Arg Met Pro Gly Glu Asp Val Leu Arg Ile Val Pro Tyr
      35      40      45
Ala Leu Lys Ala Gly Phe Arg His Val Asp Thr Ala Gln Ile Tyr Gly
      50      55      60
Asn Glu Val Glu Val Gly Glu Ala Ile Ala Thr Ser Gly Val Gln Arg
65      70      75      80
Gly Asp Ile Phe Leu Thr Thr Lys Val Trp Val Asp Asn Tyr Lys His
      85      90      95
Asp Ala Phe Ile Ala Ser Val Asp Glu Ser Leu Thr Lys Leu Lys Thr
      100      105      110
Asp Tyr Val Asp Leu Leu
115

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<210> 1621
<211> 386
<212> DNA
<213> Homo sapiens

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 240  
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 <212> PRT  
 <213> Homo sapiens

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 20 25 30  
 Gln Arg His Gly Ala Gly Pro Arg Gly Gly Gly Arg Gln Arg Ala Gly  
 35 40 45  
 Pro Arg Ser His Gly Gln Gly Arg Arg Arg Phe Ala Ala Gly Ala Gly  
 50 55 60  
 His Cys Ala Arg Tyr Glu Gly Arg Arg Gly His Lys Ala Arg Pro Ala  
 65 70 75 80  
 His Leu Pro Ala Ala Leu Leu Pro Ala Ala Leu Gly Gly Ala Arg  
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 Arg Pro Leu His Arg Leu Pro Ala Ala Pro Phe Gly Leu Arg Arg Ala  
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 <211> 314  
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 <213> Homo sapiens

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 314

<210> 1624

<211> 103

<212> PRT

<213> Homo sapiens

<400> 1624

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Val	Tyr	Pro	Ala	Met	Arg	Leu	Ser	Val	Val	Leu	Glu	Ala	Leu	Val	Pro
			20					25					30		
Leu	Lys	Thr	Pro	Met	Pro	Cys	Leu	Gly	Ala	Lys	His	Lys	Ala	Gln	Ser
			35				40					45			
Leu	Gln	Leu	Ser	Leu	Ala	Asp	Ser	Pro	Leu	Lys	Leu	Arg	Lys	Ser	Ser
			50			55					60				
Gly	Lys	Gly	Pro	Gly	Asn	Pro	Arg	Pro	Lys	Ala	Pro	Arg	Lys	Thr	Thr
			65		70				75					80	
Ser	Lys	Gly	Pro	Lys	Cys	Leu	Thr	Arg	Lys	Gly	Pro	Gly	Ala	Gly	Pro
				85					90					95	
Arg	Arg	Gly	Ser	Gly	His	Gln									
			100												

<210> 1625

<211> 619

<212> DNA

<213> Homo sapiens

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 180  
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 240  
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 300  
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 360  
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 420  
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 480  
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 619

<210> 1626  
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 <212> PRT  
 <213> Homo sapiens

<400> 1626  
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 20 25 30  
 Pro Gln Thr Leu Gln Ser Pro Ala Pro Thr His Cys Ala Pro Asp Ser  
 35 40 45  
 Pro Val Phe Pro Asp Tyr Ile Trp Ser Arg Gly Trp Val Glu Lys Leu  
 50 55 60  
 Lys Glu Ser Arg Ser Val Phe Ser His Gly Leu Lys Ile Pro Ile Phe  
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 Phe Pro Glu Ala Arg Arg Lys Val Gly Gly Phe Pro Gly Val Leu Gly  
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 <212> DNA  
 <213> Homo sapiens

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 481

<210> 1628  
 <211> 104  
 <212> PRT  
 <213> Homo sapiens

<400> 1628  
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```

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His Gln Val Val Arg Ala Asp Ile Gln Gln Asp Thr Tyr Gly Gly Arg
      20             25             30
Val Gln Thr Arg Phe Pro Pro Glu Pro Asn Gly Tyr Leu His Ile Gly
      35             40             45
His Ala Lys Ala Ile Val Thr Asp Phe Gly Val Ala Glu Asp Phe Gly
      50             55             60
Gly Thr Cys Asn Leu Arg Leu Asp Asp Thr Asn Pro Gly Thr Glu Glu
      65             70             75             80
Thr Glu Tyr Val Glu Ser Ile Val Ala Asp Ile Glu Trp Leu Gly Tyr
      85             90             95
Ser Pro Ala His Val Val His Ala
      100

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&lt;210&gt; 1629

&lt;211&gt; 4519

&lt;212&gt; DNA

&lt;213&gt; Homo sapiens

&lt;400&gt; 1629

```

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1020

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<210> 1630

<211> 496

<212> PRT

<213> Homo sapiens

<400> 1630

Pro	Asn	Cys	Trp	Glu	Cys	Pro	Lys	Cys	Tyr	Gln	Glu	Asp	Ser	Ser	Glu
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Lys	Ala	Gln	Lys	Arg	Lys	Met	Glu	Glu	Ser	Asp	Glu	Glu	Ala	Val	Gln
	20						25				30				
Ala	Lys	Val	Leu	Arg	Pro	Leu	Arg	Ser	Cys	Asp	Glu	Pro	Leu	Thr	Pro
	35					40					45				
Pro	Pro	His	Ser	Pro	Thr	Ser	Met	Leu	Gln	Leu	Ile	His	Asp	Pro	Val
50					55				60						
Ser	Pro	Arg	Gly	Met	Val	Thr	Arg	Ser	Ser	Pro	Gly	Ala	Gly	Pro	Ser
65				70					75					80	
Asp	His	His	Ser	Ala	Ser	Arg	Asp	Glu	Arg	Phe	Lys	Arg	Arg	Gln	Leu
	85							90						95	
Leu	Arg	Leu	Gln	Ala	Thr	Glu	Arg	Thr	Met	Val	Arg	Glu	Lys	Glu	Asn
	100						105					110			
Asn	Pro	Ser	Gly	Lys	Lys	Glu	Leu	Ser	Glu	Val	Glu	Lys	Ala	Lys	Ile
	115					120					125				
Arg	Gly	Ser	Tyr	Leu	Thr	Val	Thr	Leu	Gln	Arg	Pro	Thr	Lys	Glu	Leu
	130				135						140				
His	Gly	Thr	Ser	Ile	Val	Pro	Lys	Leu	Gln	Ala	Ile	Thr	Ala	Ser	Ser
145				150					155					160	
Ala	Asn	Leu	Arg	His	Ser	Pro	Arg	Val	Leu	Val	Gln	His	Cys	Pro	Ala
	165							170						175	
Arg	Thr	Pro	Gln	Arg	Gly	Asp	Glu	Glu	Gly	Leu	Gly	Gly	Glu	Glu	Glu
	180						185						190		
Glu	Glu	Glu	Glu	Glu	Glu	Glu	Glu	Asp	Asp	Ser	Ala	Glu	Glu	Gly	Gly
	195					200					205				
Ala	Ala	Arg	Leu	Asn	Gly	Arg	Gly	Ser	Trp	Ala	Gln	Asp	Gly	Asp	Glu
	210				215						220				
Ser	Trp	Met	Gln	Arg	Glu	Val	Trp	Met	Ser	Val	Phe	Arg	Tyr	Leu	Ser
225				230					235					240	
Arg	Arg	Glu	Leu	Cys	Glu	Cys	Met	Arg	Val	Cys	Lys	Thr	Trp	Tyr	Lys
	245							250						255	
Trp	Cys	Cys	Asp	Lys	Arg	Leu	Trp	Thr	Lys	Ile	Asp	Leu	Ser	Arg	Cys
	260						265					270			
Lys	Ala	Ile	Val	Pro	Gln	Ala	Leu	Ser	Gly	Ile	Ile	Lys	Arg	Gln	Pro
	275					280						285			
Val	Ser	Leu	Asp	Leu	Ser	Trp	Thr	Asn	Ile	Ser	Lys	Lys	Gln	Leu	Thr

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      290              295              300
Trp Leu Val Asn Arg Leu Pro Gly Leu Lys Asp Leu Leu Leu Ala Gly
305              310              315              320
Cys Ser Trp Ser Ala Val Ser Ala Leu Ser Thr Ser Ser Cys Pro Leu
      325              330              335
Leu Arg Thr Leu Asp Leu Arg Trp Ala Val Gly Ile Lys Asp Pro Gln
      340              345              350
Ile Arg Asp Leu Leu Thr Pro Pro Ala Asp Lys Pro Gly Gln Asp Asn
      355              360              365
Arg Ser Lys Leu Arg Asn Met Thr Asp Phe Arg Leu Ala Gly Leu Asp
      370              375              380
Ile Thr Asp Ala Thr Leu Arg Leu Ile Ile Arg His Met Pro Leu Leu
      385              390              395              400
Ser Arg Leu Asp Leu Ser His Cys Ser His Leu Thr Asp Gln Ser Ser
      405              410              415
Asn Leu Leu Thr Ala Val Gly Ser Ser Thr Arg Tyr Ser Leu Thr Glu
      420              425              430
Leu Asn Met Ala Gly Cys Asn Lys Leu Thr Asp Gln Thr Leu Ile Tyr
      435              440              445
Leu Arg Arg Ile Ala Asn Val Thr Leu Ile Asp Leu Arg Gly Cys Lys
      450              455              460
Gln Ile Thr Arg Lys Ala Cys Glu His Phe Ile Ser Asp Leu Ser Ile
      465              470              475              480
Asn Ser Leu Tyr Cys Leu Ser Asp Glu Lys Leu Ile Gln Lys Ile Ser
      485              490              495

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<210> 1631

<211> 330

<212> DNA

<213> Homo sapiens

<400> 1631

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ccatgttgac tctcgcgacg agcttgttga gttgcttggc ttttcgaaag acgacattac
180
caaccaagtt cagcaagctg tgggcgcctt ggggtttacc ccaactagaag atgaaaacgc
240
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330

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<210> 1632

<211> 92

<212> PRT

<213> Homo sapiens

<400> 1632

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Met Gln Cys Gln Asn Pro Asn Thr Arg Ala Ser Asp Met Ala Gly Trp
1          5          10          15
Lys Thr Leu Gln Thr Leu Phe His Val Asp Ser Arg Asp Glu Leu Val

```

```

          20          25          30
Glu Leu Leu Gly Phe Ser Lys Asp Asp Ile Thr Asn Gln Val Gln Gln
          35          40          45
Ala Val Gly Ala Leu Gly Leu Pro Pro Leu Glu Asp Glu Asn Ala Gln
          50          55          60
Gly Glu Asp Pro Ala Ser Gln Val Pro Pro Val Thr Asp Glu Asp Pro
          65          70          75          80
Thr Ala Phe Phe Asp Gln Val Pro Asp Val Pro Leu
          85          90

```

&lt;210&gt; 1633

&lt;211&gt; 259

&lt;212&gt; DNA

&lt;213&gt; Homo sapiens

&lt;400&gt; 1633

```

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120
ggattgttag gtggatttac gacttattcc gccctcacgg tggaaaccgg ccaacgtgtg
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240
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259

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&lt;210&gt; 1634

&lt;211&gt; 86

&lt;212&gt; PRT

&lt;213&gt; Homo sapiens

&lt;400&gt; 1634

```

Xaa Gly Thr Leu Ala Ile Asn Leu Val Gly Ala Phe Val Leu Ala Thr
1      5      10      15
Leu Leu Glu Leu Leu Val His Ala Gly Pro Gly Pro Gly Val Arg Arg
          20      25      30
Ala Val Arg Leu Cys Ile Gly Thr Gly Leu Leu Gly Gly Phe Thr Thr
          35      40      45
Tyr Ser Ala Leu Thr Val Glu Thr Gly Gln Arg Val Met Ser Gly Gln
          50      55      60
Trp Leu Trp Gly Ile Ala Tyr Leu Leu Thr Ser Val Val Ala Gly Ala
          65      70      75      80
Leu Leu Ala Trp Val Met
          85

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&lt;210&gt; 1635

&lt;211&gt; 792

&lt;212&gt; DNA

&lt;213&gt; Homo sapiens

&lt;400&gt; 1635

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60

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aagatggcgg ctcattctgtc ctacggccga gtgaacctaa acgtgttgcg cgaggcgggtg  
120  
cgtcgcgagc tgcgcgagtt cctggacaag tgcgcaggaa gcaaggcaat agtttgggat  
180  
gaatacctaa ctggaccctt tggcctgatt gcacagtatt cactattgaa ggaacatgaa  
240  
gtggaaaaaa tgttcacact taaaggaaat cgtttgccgg cagctgatgt gaagaatata  
300  
attttttttg tcagaccctg gctagagttg atggatataa tcgctgaaaa cgtgctcagt  
360  
gaagatagac gagggccaac gagagatttt catattctgt ttgtgccacg ccgtagcctg  
420  
ttgtgcgaac agcgggtgaa ggatctgggt gtcttgggat cctttattca cagggaggag  
480  
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540  
ttcaaagagt gctacctgga gggtagaccg acgagcctgt accacgcagc caaggggctg  
600  
atgaccctgc aagctctgta tggaacgac cccagatct ttgggaaagg agaatgcgct  
660  
cgggtgagaa ccggctgctt tgtggtggta aaggagggcc cttcacaccc caaaagggag  
720  
gaggaacggg aagctcctta caacaaatt cagttgatct taattattta tgaatactgt  
780  
actcatgaat tc  
792

&lt;210&gt; 1636

&lt;211&gt; 243

&lt;212&gt; PRT

&lt;213&gt; Homo sapiens

&lt;400&gt; 1636

Met Ala Ala His Leu Ser Tyr Gly Arg Val Asn Leu Asn Val Leu Arg  
1 5 10 15  
Glu Ala Val Arg Arg Glu Leu Arg Glu Phe Leu Asp Lys Cys Ala Gly  
20 25 30  
Ser Lys Ala Ile Val Trp Asp Glu Tyr Leu Thr Gly Pro Phe Gly Leu  
35 40 45  
Ile Ala Gln Tyr Ser Leu Leu Lys Glu His Glu Val Glu Lys Met Phe  
50 55 60  
Thr Leu Lys Gly Asn Arg Leu Pro Ala Ala Asp Val Lys Asn Ile Ile  
65 70 75 80  
Phe Phe Val Arg Pro Arg Leu Glu Leu Met Asp Ile Ile Ala Glu Asn  
85 90 95  
Val Leu Ser Glu Asp Arg Arg Gly Pro Thr Arg Asp Phe His Ile Leu  
100 105 110  
Phe Val Pro Arg Arg Ser Leu Leu Cys Glu Gln Arg Leu Lys Asp Leu  
115 120 125  
Gly Val Leu Gly Ser Phe Ile His Arg Glu Glu Tyr Ser Leu Asp Leu  
130 135 140  
Ile Pro Phe Asp Gly Asp Leu Leu Ser Met Glu Ser Glu Gly Ala Phe  
145 150 155 160  
Lys Glu Cys Tyr Leu Glu Gly Asp Gln Thr Ser Leu Tyr His Ala Ala

```

                165                170                175
Lys Gly Leu Met Thr Leu Gln Ala Leu Tyr Gly Thr Ile Pro Gln Ile
                180                185                190
Phe Gly Lys Gly Glu Cys Ala Arg Val Arg Thr Gly Cys Phe Val Val
                195                200                205
Val Lys Glu Gly Pro Ser His Pro Lys Arg Glu Glu Glu Arg Glu Ala
                210                215                220
Pro Tyr Lys Gln Ile Gln Leu Ile Leu Ile Tyr Glu Tyr Cys Thr
225                230                235                240
His Glu Phe

```

&lt;210&gt; 1637

&lt;211&gt; 357

&lt;212&gt; DNA

&lt;213&gt; Homo sapiens

&lt;400&gt; 1637

```

ntcatgatga cacagacccc cgcgcaccca ggcttgatct cctgcaagg catcggaaca
60
cgttatcagt tggccgggca aaagctgtcc attctcaatg acgtgtgcct gtccatctcc
120
cgcggtgaca gctcgggcat cctcggcgcgc tccgggtccg gcaagagcac cctgctcaat
180
atccttggcc tgctggacct gcccaacagc ggccagtacc actttgccgg ccacgatatt
240
ttggcgctca ccccgacga actgtcggcg atccgcaact cagntnnaat ggttgtgttc
300
cagagcttca acctgctgcc gcgcctcagc gccctggaga acgtcgccct gcccttg
357

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&lt;210&gt; 1638

&lt;211&gt; 119

&lt;212&gt; PRT

&lt;213&gt; Homo sapiens

&lt;400&gt; 1638

```

Xaa Met Met Thr Gln Thr Pro Ala His Pro Gly Leu Ile Ser Leu Gln
1          5          10
Gly Ile Gly Lys Arg Tyr Gln Leu Ala Gly Gln Lys Leu Ser Ile Leu
20         25         30
Asn Asp Val Cys Leu Ser Ile Ser Arg Gly Asp Ser Cys Gly Ile Leu
35         40         45
Gly Ala Ser Gly Ser Gly Lys Ser Thr Leu Leu Asn Ile Leu Gly Leu
50         55         60
Leu Asp Leu Pro Asn Ser Gly Gln Tyr His Phe Ala Gly His Asp Ile
65         70         75         80
Leu Ala Leu Thr Pro Asp Glu Leu Ser Ala Ile Arg Asn Ser Xaa Xaa
85         90         95
Met Val Val Phe Gln Ser Phe Asn Leu Leu Pro Arg Leu Ser Ala Leu
100        105        110
Asp Asn Val Ala Leu Pro Leu
115

```

<210> 1639  
 <211> 396  
 <212> DNA  
 <213> Homo sapiens

<400> 1639  
 acgcgtgtac gtgcgcgtgt gatttcacat gccctcaaag atattcttac tgaaggcgat  
 60  
 aaagttatcg ttatgggaca taagcgacca gatttagatg ctatagggtgc agctatcgga  
 120  
 gtttcgcgct ttgcatcaat gaataattta gaggcattta tcgttcttaa tgattctgat  
 180  
 attgatccga cattacgtcg tgttatggat gagattgata agaaaccgga actaaaagaa  
 240  
 cgctttgtaa catcggtatga ggcttgggat atgatgactt ctaagacgac tgtcgttggt  
 300  
 gtatagatcac ataaacctga aatgggtctta gatgaaatg tcttaataaa agcaaacgcg  
 360  
 aaagtagtca ttgatcatca tagacgtggc gaaact  
 396

<210> 1640  
 <211> 132  
 <212> PRT  
 <213> Homo sapiens

<400> 1640  
 Thr Arg Val Arg Ala Arg Val Ile Ser His Ala Leu Lys Asp Ile Leu  
 1 5 10 15  
 Thr Glu Gly Asp Lys Val Ile Val Met Gly His Lys Arg Pro Asp Leu  
 20 25 30  
 Asp Ala Ile Gly Ala Ala Ile Gly Val Ser Arg Phe Ala Ser Met Asn  
 35 40 45  
 Asn Leu Glu Ala Phe Ile Val Leu Asn Asp Ser Asp Ile Asp Pro Thr  
 50 55 60  
 Leu Arg Arg Val Met Asp Glu Ile Asp Lys Lys Pro Glu Leu Lys Glu  
 65 70 75 80  
 Arg Phe Val Thr Ser Asp Glu Ala Trp Asp Met Met Thr Ser Lys Thr  
 85 90 95  
 Thr Val Val Val Val Asp Thr His Lys Pro Glu Met Val Leu Asp Glu  
 100 105 110  
 Asn Val Leu Asn Lys Ala Asn Arg Lys Val Val Ile Asp His His Arg  
 115 120 125  
 Arg Gly Glu Thr  
 130

<210> 1641  
 <211> 376  
 <212> DNA  
 <213> Homo sapiens

<400> 1641  
 ttatcagcaa acgacagcag acaagagctc ctggggctct ggggaaatgc tgcgtgcctgc  
 60

tggccaaacg aactgatgga tgggctcttg gagtgggaga gactgggcag aagctgtgtg  
 120  
 ggggtgggtga ctcccaacct aaagaaccca ctgagacata tgtggcttcc ctcttccacc  
 180  
 ttcatgtcct ctttccgtct agatgctggc aaggggggac ttggtggaca aagagagcta  
 240  
 ctattcattc aggagctatg ttacaccagt cactttacat gtgccacttg ctctgggtta  
 300  
 aactgtgcct cccctcactc atatgttgaa gtcttaacct taactacctc agaatgggag  
 360  
 gttatttggg aaaaag  
 376

<210> 1642

<211> 100

<212> PRT

<213> Homo sapiens

<400> 1642

Met Asp Gly Leu Leu Glu Trp Glu Arg Leu Gly Arg Ser Cys Val Gly  
 1 5 10 15  
 Trp Val Thr Pro Asn Leu Lys Asn Pro Leu Arg His Met Trp Leu Pro  
 20 25 30  
 Ser Ser Thr Phe Ile Ala Ser Phe Arg Leu Asp Ala Gly Lys Gly Gly  
 35 40 45  
 Leu Gly Gly Gln Arg Glu Leu Leu Phe Ile Gln Glu Leu Cys Tyr Thr  
 50 55 60  
 Ser His Phe Thr Cys Ala Thr Cys Ser Gly Leu Asn Cys Ala Ser Pro  
 65 70 75 80  
 His Ser Tyr Val Glu Val Leu Thr Leu Thr Ser Glu Trp Asp Val  
 85 90 95  
 Ile Trp Lys Lys  
 100

<210> 1643

<211> 494

<212> DNA

<213> Homo sapiens

<400> 1643

aagcttccag aattccatag gaaccacagct gcccttcttg tacctcagtg aggtggagcc  
 60  
 gagggtctga gagcaggtgc aggagaaggt gtgggctcca cctgggcctc tgaagccagg  
 120  
 ggccagaatc cccagatcta ggtccaagag ggggctccat gacctcccca tgctgtctct  
 180  
 ctgcttggat ccagatatata agaaaggagg ggcacacact gtgggggaac tctgggggtc  
 240  
 cctgtgtgca tcagcagagtc ccgggtctgc cccaccagga tgcaaagggc ctggctgtct  
 300  
 cagccccatg ctcacagccc tataagtgca cgatggcacc ctatatcacc taagcggggc  
 360  
 tgtgctctct gaggctttag ggacaccaga atgagcccc ctcggcggag tctggctctg  
 420

gggtgtgtgga gatgccacct gggacgggaa cccaggtgc atggagcccc actgcagaca  
 480  
 ccattccccg tgtg  
 494

<210> 1644  
 <211> 103  
 <212> PRT  
 <213> Homo sapiens

<400> 1644  
 Met Gly Leu Glu Gln Pro Gly Pro Leu His Pro Gly Gly Ala Asp Pro  
 1 5 10 15  
 Gly Leu Ala Asp Ala His Arg Gly Pro Gln Ser Ser Pro Thr Val Cys  
 20 25 30  
 Ala Pro Pro Phe Leu Tyr Pro Gly Ser Lys Gln Arg Ser Ser Met Gly  
 35 40 45  
 Arg Ser Trp Ser Pro Leu Leu Asp Leu Asp Leu Gly Ile Leu Ala Pro  
 50 55 60  
 Gly Phe Arg Gly Pro Gly Gly Ala His Thr Phe Ser Cys Thr Cys Ser  
 65 70 75 80  
 Gln Thr Leu Gly Ser Thr Ser Leu Arg Tyr Gln Lys Gly Ser Trp Val  
 85 90 95  
 Pro Met Glu Phe Trp Lys Leu  
 100

<210> 1645  
 <211> 330  
 <212> DNA  
 <213> Homo sapiens

<400> 1645  
 nnagatctgt cggataatgg ctttggtccc gacatggtga cactggtgct tgccatcggg  
 60  
 aggagccggt ctctgaaaca cgtggccctt ggaaggaact tcaacgttcg gtgcaaggag  
 120  
 accctggacg atgtcctgca tcggatagcc cagctaatagc aggatgacga ctgtcctttg  
 180  
 cagtcactat ccgtggctga gtcgcggttg aagcaggggt ccagcatcct gatccgggct  
 240  
 ttgggcacca atcctaaaac gacagcgctg gatatcagtg gcaatgccat aggggatgct  
 300  
 gggggccaaga tgctagccaa ggctctacgc  
 330

<210> 1646  
 <211> 110  
 <212> PRT  
 <213> Homo sapiens

<400> 1646  
 Xaa Asp Leu Ser Asp Asn Gly Phe Gly Ser Asp Met Val Thr Leu Val  
 1 5 10 15  
 Leu Ala Ile Gly Arg Ser Arg Ser Leu Lys His Val Ala Leu Gly Arg

```

                20                25                30
Asn Phe Asn Val Arg Cys Lys Glu Thr Leu Asp Asp Val Leu His Arg
      35                40                45
Ile Ala Gln Leu Met Gln Asp Asp Asp Cys Pro Leu Gln Ser Leu Ser
      50                55                60
Val Ala Glu Ser Arg Leu Lys Gln Gly Ala Ser Ile Leu Ile Arg Ala
      65                70                75                80
Leu Gly Thr Asn Pro Lys Leu Thr Ala Leu Asp Ile Ser Gly Asn Ala
      85                90                95
Ile Gly Asp Ala Gly Ala Lys Met Leu Ala Lys Ala Leu Arg
      100                105                110

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&lt;210&gt; 1647

&lt;211&gt; 501

&lt;212&gt; DNA

&lt;213&gt; Homo sapiens

&lt;400&gt; 1647

```

aggccgctcg gtgatccgcg gcggcgccag cggcgcttcc tgctaggacc ggccggggcc
60
gtaccggagg ctcgggctcc accgaccctc ctcccacccc ctcccactca cctctcgggc
120
cgcgactcgc cagggcgggg ccggccgaac catgggcccgc ggtgtgggct aagctgggtg
180
ccccggcttt agactggacc ccacaatggt tgcagagatg ttcaggcacg cgggagctga
240
ttacacacaa tgaatggggg caatgagagc agtggagcag acagagctgg gggccctgtg
300
gccacatctg tccccatcgg ctggcagcgc tgtgtgcgag aggggtgctgt gctctacatc
360
agtccaagtg gcacagagct gtcttccttg gagcaaaccc ggagctacct cctcagcgat
420
gggacctgca agtcgggtct ggagtgtcca cttaattgtc ccaagggttt caactttgac
480
cctttggccc cggtgacccc g
501

```

&lt;210&gt; 1648

&lt;211&gt; 84

&lt;212&gt; PRT

&lt;213&gt; Homo sapiens

&lt;400&gt; 1648

```

Met Asn Gly Gly Asn Glu Ser Ser Gly Ala Asp Arg Ala Gly Gly Pro
  1                5                10                15
Val Ala Thr Ser Val Pro Ile Gly Trp Gln Arg Cys Val Arg Glu Gly
      20                25                30
Ala Val Leu Tyr Ile Ser Pro Ser Gly Thr Glu Leu Ser Ser Leu Glu
      35                40                45
Gln Thr Arg Ser Tyr Leu Leu Ser Asp Gly Thr Cys Lys Cys Gly Leu
      50                55                60
Glu Cys Pro Leu Asn Val Pro Lys Val Phe Asn Phe Asp Pro Leu Ala
      65                70                75                80
Pro Val Thr Pro

```

<210> 1649  
 <211> 441  
 <212> DNA  
 <213> Homo sapiens

<400> 1649  
 gcgtcggcag ctgaacgggt gctactggca atcggcgaaac ccgaactgct ggatacgtcc  
 60  
 accaactcac ggttgctcgc catcttctcc aacaagggtga tccggcgcta tccggccttt  
 120  
 gaagacttcc acgggatgga agaatgcac gatcagatcg ttctgtatctt ccgccacgcc  
 180  
 gcccaaggcc tggaagagaa gaaacagatc ctttacctgc tcggccccgt cggcgggcgg  
 240  
 aaatcgtccc tggccgaaaa gctgaaacag ctgatcgaga aggtcccttt ctacgccatc  
 300  
 aaggggctcgc cgggtcttcca gtcgcccctg ggggtgttca acgccactga agacggcgcg  
 360  
 atcctcgagg aagacttcgg gattccacgg cgttacctga acaccatcat gtcgcccctg  
 420  
 gcgaccaagc gcctggccga a  
 441

<210> 1650  
 <211> 147  
 <212> PRT  
 <213> Homo sapiens

<400> 1650  
 Ala Ser Ala Ala Glu Arg Val Leu Leu Ala Ile Gly Glu Pro Glu Leu  
 1 5 10 15  
 Leu Asp Thr Ser Thr Asn Ser Arg Leu Ser Arg Ile Phe Ser Asn Lys  
 20 25 30  
 Val Ile Arg Arg Tyr Pro Ala Phe Glu Asp Phe His Gly Met Glu Glu  
 35 40 45  
 Cys Ile Asp Gln Ile Val Ser Tyr Phe Arg His Ala Ala Gln Gly Leu  
 50 55 60  
 Glu Glu Lys Lys Gln Ile Leu Tyr Leu Leu Gly Pro Val Gly Gly Gly  
 65 70 75 80  
 Lys Ser Ser Leu Ala Glu Lys Leu Lys Gln Leu Ile Glu Lys Val Pro  
 85 90 95  
 Phe Tyr Ala Ile Lys Gly Ser Pro Val Phe Glu Ser Pro Leu Gly Leu  
 100 105 110  
 Phe Asn Ala Thr Glu Asp Gly Ala Ile Leu Glu Glu Asp Phe Gly Ile  
 115 120 125  
 Pro Arg Arg Tyr Leu Asn Thr Ile Met Ser Pro Trp Ala Thr Lys Arg  
 130 135 140  
 Leu Ala Glu  
 145

<210> 1651  
 <211> 408

&lt;212&gt; DNA

&lt;213&gt; Homo sapiens

&lt;400&gt; 1651

nccgcggatc cctccggcat cctgggtatc gctccctcga aggaatccgg agccccgactg  
 60  
 cgccgcgagc tttccgaacg cctcgaggat tacgccgcac aaacttccat ggtgcgttcc  
 120  
 gtacactccc tcgcattcgc gttgctgcgc acagcggccg aggaggagct gcgccttatt  
 180  
 accgggtgcgg acnaagacgc cgttatccgc gagctgctca cgggccaagc agaagacgga  
 240  
 catggctcgt ggccccgcga gatgcgcccc gcgtggaatn natgtgggct ttccgggcag  
 300  
 ctgcgcgatt tcctttttgcg ttccattgaa cgcggcctgg gaccgggtga cctagagagc  
 360  
 ctccgtgccg agcacggccg ccccatgtgg tctgcggcgg gtgaattc  
 408

&lt;210&gt; 1652

&lt;211&gt; 136

&lt;212&gt; PRT

&lt;213&gt; Homo sapiens

&lt;400&gt; 1652

Xaa	Ala	Asp	Pro	Ser	Gly	Ile	Leu	Val	Ile	Ala	Pro	Ser	Lys	Glu	Ser
1				5				10					15		
Gly	Ala	Arg	Leu	Arg	Arg	Glu	Leu	Ser	Glu	Arg	Leu	Glu	Asp	Tyr	Ala
			20					25				30			
Ala	Gln	Thr	Ser	Met	Val	Arg	Ser	Val	His	Ser	Leu	Ala	Phe	Ala	Leu
			35					40				45			
Leu	Arg	Thr	Ala	Ala	Glu	Glu	Glu	Leu	Arg	Leu	Ile	Thr	Gly	Ala	Asp
			50			55					60				
Xaa	Asp	Ala	Val	Ile	Arg	Glu	Leu	Leu	Thr	Gly	Gln	Ala	Glu	Asp	Gly
65				70					75					80	
His	Gly	Ser	Trp	Pro	Ala	Glu	Met	Arg	Pro	Ala	Trp	Asn	Xaa	Cys	Gly
			85					90						95	
Leu	Ser	Arg	Gln	Leu	Arg	Asp	Phe	Leu	Leu	Arg	Ser	Ile	Glu	Arg	Gly
			100					105					110		
Leu	Gly	Pro	Gly	Asp	Leu	Glu	Ser	Leu	Gly	Ala	Glu	His	Gly	Arg	Pro
			115				120					125			
Met	Trp	Ser	Ala	Ala	Gly	Glu	Phe								
			130				135								

&lt;210&gt; 1653

&lt;211&gt; 398

&lt;212&gt; DNA

&lt;213&gt; Homo sapiens

&lt;400&gt; 1653

ccagcctctc tcgcaccgcg tcctttcttcc ggccatacgg caccacaatgt cgcgtcacca  
 60  
 tcaccgcgcg acatggccat cgctccaccg gacgagttga gtgacaagat ccggtgcatt  
 120

ctgcgcaccc ttgaacctgg tgacagtgtg aaggagattc tcaacacgtc gcgtgtcgtc  
 180  
 ggcattgacg tccagagcag cctgcttatt gctgggtgctc agcatctgta cttgttggag  
 240  
 gattacttcc agcgtccgaa cggtgaaatc gtcaatgtct gggaagctcc gccacacgag  
 300  
 cgcatgcct tgatcgtggc ggccgggtgc gcacaggtgg cacaagcag cacacccgtg  
 360  
 cagatatggc gctgggaaca gctccgactt tgtctaga  
 398

<210> 1654  
 <211> 132  
 <212> PRT  
 <213> Homo sapiens

<400> 1654  
 Pro Ala Ser Leu Arg Pro Arg Pro Ser Ser Gly His Thr Ala Pro Asn  
 1 5 10 15  
 Val Ala Ser Pro Ser Pro Ala His Met Ala Ile Ala Pro Pro Asp Glu  
 20 25 30  
 Leu Ser Asp Lys Ile Arg Cys Ile Leu Arg Thr Leu Glu Pro Gly Asp  
 35 40 45  
 Ser Val Lys Glu Ile Leu Asn Thr Ser Arg Val Val Gly Ile Asp Val  
 50 55 60  
 Gln Ser Ser Leu Leu Ile Ala Gly Ala Gln His Leu Tyr Leu Leu Asp  
 65 70 75 80  
 Asp Tyr Phe Gln Arg Pro Asn Gly Glu Ile Val Asn Val Trp Glu Ala  
 85 90 95  
 Pro Pro His Glu Arg Asp Ala Leu Ile Val Ala Ala Gly Val Ala Gln  
 100 105 110  
 Val Ala Gln Ser Ser Thr Pro Val Gln Ile Trp Arg Trp Glu Gln Leu  
 115 120 125  
 Arg Leu Cys Leu  
 130

<210> 1655  
 <211> 1115  
 <212> DNA  
 <213> Homo sapiens

<400> 1655  
 nccctgacct gacctgtcct cgccatggcc gagggccgct ccggcgccgg gggcacgtcc  
 60  
 ctggagggcg agcgtggcaa gagcccccg ccggagggcg agcctgcagc ccggcgctcc  
 120  
 ggagttctcg ataagctttt cggaaagcgg ctctctgcagg ctggctcgcta cctgggtgctc  
 180  
 cacaaggcgt ggatgaagac ggtgcctaca gagaactcgc acgtgctgat gaccttccca  
 240  
 gacacgaccg atgaccacac gctgctatgg ctgctgaacc acatccgcgt gggcattccc  
 300  
 gagctcatcg tgcaagtcgg ccaccaccgc cacacgcgtg cctacgcctt ctttgtcacc  
 360

```

gccagctatg agagcctact ccgagggggc gacgagctgg gtctgcgcaa agcagtgaag
420
gccgagtttg gcgggggcac ccgcggttc tcctgcgagg aggactttat ctatgagaat
480
gtggagagcg agctacgctt cttcacctcc caggaacgcc agagcatcat ccgcttctgg
540
ctgcagaatt tgcgtgccaa gcagggagaa gcactccaca acgtgcgctt cctggaggagc
600
cagccaatca tcccgagctt ggcagcacgt gggatcatcc agcagggtgtt ccctgtccac
660
gagcagcgta ttctgaaccg cctcatgaag tcatgggtgc aggccgtgtg tgaaccagg
720
cctctagatg acatctgtga ttactttggt gtgaaaattg ccatgtactt cgcttggtg
780
ggcttctaca cgctggctat ggtataccca gctgtcttcg ggtctgtcct gtacacattc
840
acagaggctg atcagacaag ccgggatgtt tcctgcgtgg tctttgccct cttcaacgtg
900
atctggctga cgctgttcct ataggaatgg aagcgtatag gggctgagct gggatataat
960
tgggggagcg tggactcate ctgggaagcc gtggaggagc cagccccca gttcaggtgc
1020
gtgcgacgta tcacccccat cactcgggcc gaggagtctt actaccgcc ctggaagcgg
1080
ctgctcttcc agctgcttgt tagcctccgc ctgtg
1115

```

&lt;210&gt; 1656

&lt;211&gt; 299

&lt;212&gt; PRT

&lt;213&gt; Homo sapiens

&lt;400&gt; 1656

```

Met Ala Glu Ala Ala Ser Gly Ala Gly Gly Thr Ser Leu Glu Gly Glu
1 5 10 15
Arg Gly Lys Arg Pro Pro Pro Glu Gly Glu Pro Ala Ala Pro Ala Ser
20 25 30
Gly Val Leu Asp Lys Leu Phe Gly Lys Arg Leu Leu Gln Ala Gly Arg
35 40 45
Tyr Leu Val Ser His Lys Ala Trp Met Lys Thr Val Pro Thr Glu Asn
50 55 60
Cys Asp Val Leu Met Thr Phe Pro Asp Thr Thr Asp Asp His Thr Leu
65 70 75 80
Leu Trp Leu Leu Asn His Ile Arg Val Gly Ile Pro Glu Leu Ile Val
85 90 95
Gln Val Arg His His Arg His Thr Arg Ala Tyr Ala Phe Phe Val Thr
100 105 110
Ala Thr Tyr Glu Ser Leu Leu Arg Gly Ala Asp Glu Leu Gly Leu Arg
115 120 125
Lys Ala Val Lys Ala Glu Phe Gly Gly Gly Thr Arg Gly Phe Ser Cys
130 135 140
Glu Glu Asp Phe Ile Tyr Glu Asn Val Glu Ser Glu Leu Arg Phe Phe
145 150 155 160
Thr Ser Gln Glu Arg Gln Ser Ile Ile Arg Phe Trp Leu Gln Asn Leu

```

```

          165              170              175
Arg Ala Lys Gln Gly Glu Ala Leu His Asn Val Arg Phe Leu Glu Asp
          180              185              190
Gln Pro Ile Ile Pro Glu Leu Ala Ala Arg Gly Ile Ile Gln Gln Val
          195              200              205
Phe Pro Val His Glu Gln Arg Ile Leu Asn Arg Leu Met Lys Ser Trp
          210              215              220
Val Gln Ala Val Cys Glu Asn Gln Pro Leu Asp Asp Ile Cys Asp Tyr
          225              230              235
Phe Gly Val Lys Ile Ala Met Tyr Phe Ala Trp Leu Gly Phe Tyr Thr
          245              250              255
Ser Ala Met Val Tyr Pro Ala Val Phe Gly Ser Val Leu Tyr Thr Phe
          260              265              270
Thr Glu Ala Asp Gln Thr Ser Arg Asp Val Ser Cys Val Val Phe Ala
          275              280              285
Leu Phe Asn Val Ile Trp Ser Thr Leu Phe Leu
          290              295

```

&lt;210&gt; 1657

&lt;211&gt; 333

&lt;212&gt; DNA

&lt;213&gt; Homo sapiens

&lt;400&gt; 1657

```

tgtagaggct cggagtcac cggaccatgt ggtccaggac gcccccgctc tccggggcccc
60
gcacggagac gcggcgctcag cacggacagc acgcagctctg tgagccctctg caggcagttc
120
ttggagcccg cgggcttccc gcgccgcttc agggggcggg cggcagctcg ggccggctact
180
tctcccaaaa ctgctccggg caggggcgct ccagcagcct ctgcatgaga cggacggcat
240
ccacgcggcc cgtgtaagt gcccactcct gcggcgacat tccacggcgg gggtaccctc
300
gcgtgggacat ccgccctgc tagcatcagg gct
333

```

&lt;210&gt; 1658

&lt;211&gt; 108

&lt;212&gt; PRT

&lt;213&gt; Homo sapiens

&lt;400&gt; 1658

```

Met Leu Ala Gly Ala Asp Val His Ala Arg Val Pro Pro Pro Trp Asn
1      5      10      15
Val Ala Ala Gly Val Gly His Leu His Gly Pro Arg Gly Cys Arg Pro
20     25     30
Ser His Ala Glu Ala Ala Gly Ala Pro Leu Pro Gly Ala Val Leu Gly
35     40     45
Glu Val Pro Ala Arg Ala Ala Arg Pro Leu Lys Arg Arg Gly Lys
50     55     60
Pro Ala Gly Ser Lys Asn Cys Leu Gln Arg Leu Thr Asp Cys Val Leu
65     70     75     80
Ser Val Leu Thr Pro Arg Leu Arg Ala Gly Pro Gly Gly Arg Gly Arg

```

```

      85              90              95
Pro Gly Pro His Gly Pro Asp Asp Leu Glu Pro Leu
      100              105

<210> 1659
<211> 382
<212> DNA
<213> Homo sapiens

<400> 1659
nnaagcttat ttgttattac taatatatttc cgtgaccaga tgggscgcta tggtgagatt
60
tacacaactt acaagatgat tttggatgct attcgtaagg tgccactgc cactgttctc
120
cttaatggag acagtccact tttctacaag ccagctattc caaatcctgt acagtatttt
180
ggttttgact tggagaaaagg cccagcccaa ctggctcact ataataccga aggaattctc
240
tgtcccgcact gccaaggcat cctcaaatat gagcataata cctatgcaaa cttgggcgcc
300
tatatctgtg aagactgtgg atgtaaacgt cctgatctcg actatcgctt gacagaactg
360
gttgagttaa ccaacaatcg cn
382

<210> 1660
<211> 127
<212> PRT
<213> Homo sapiens

<400> 1660
Xaa Ser Leu Phe Val Ile Thr Asn Ile Phe Arg Asp Gln Met Gly Arg
1              5              10              15
Tyr Gly Glu Ile Tyr Thr Thr Tyr Lys Met Ile Leu Asp Ala Ile Arg
20              25              30
Lys Val Pro Thr Ala Thr Val Leu Leu Asn Gly Asp Ser Pro Leu Phe
35              40              45
Tyr Lys Pro Ala Ile Pro Asn Pro Val Gln Tyr Phe Gly Phe Asp Leu
50              55              60
Glu Lys Gly Pro Ala Gln Leu Ala His Tyr Asn Thr Glu Gly Ile Leu
65              70              75              80
Cys Pro Asp Cys Gln Gly Ile Leu Lys Tyr Glu His Asn Thr Tyr Ala
85              90              95
Asn Leu Gly Ala Tyr Ile Cys Glu Asp Cys Gly Cys Lys Arg Pro Asp
100              105              110
Leu Asp Tyr Arg Leu Thr Glu Leu Val Glu Leu Thr Asn Asn Arg
115              120              125

<210> 1661
<211> 524
<212> DNA
<213> Homo sapiens

<400> 1661

```

acgcgtcgcg gatcatggag aagacgcggg ccggctcctt gcctgtgacc ttcttgtaca  
 60  
 gctgcgggta gtagagctcc aggcctctga ggaaggccac gtagcccttg tggccgggtcc  
 120  
 gctgcaggat gtccaggagc acaccactt tccgtttgcg gatgaccagg ttgggggtcgc  
 180  
 tgagcacctg ctccctcatca tcagggttca ggaccttgca ctgccgcagg taagggtgtga  
 240  
 tgcgtagagg gtcgatgacc gaggtgagcg tcaccgggaa gccctccagg acgttccagg  
 300  
 actcgtcatc gttctcgtag tccgacatgg cctcagcagg caggctgggg agtgtggggc  
 360  
 agtgctgaga gcgatgccgg ctccctgccc caccggggcc cagctccac tccttctcag  
 420  
 acgctggggc agggctctcg tcagggcac gagggggatc agcccaggcg catccaggag  
 480  
 aggtgcccg ctccgtgtcc catccacgc ttgatcgtg catg  
 524

<210> 1662

<211> 174

<212> PRT

<213> Homo sapiens

<400> 1662

Met	Gln	Arg	Ser	Ser	Val	Gly	Trp	Asp	Thr	Glu	Leu	Gly	Thr	Ser	Pro
1			5					10					15		
Gly	Cys	Ala	Trp	Ala	Asp	Pro	Pro	Arg	Cys	Pro	Asp	Glu	Ser	Pro	Gly
		20					25					30			
Pro	Ala	Ser	Glu	Lys	Glu	Trp	Glu	Leu	Gly	Pro	Gly	Gly	Gly	Arg	Ser
		35				40					45				
Arg	His	Arg	Ser	Gln	His	Cys	Pro	Thr	Leu	Pro	Ser	Leu	Pro	Ala	Glu
	50				55					60					
Ala	Met	Ser	Asp	Tyr	Glu	Asn	Asp	Asp	Glu	Cys	Trp	Asn	Val	Leu	Glu
65				70					75				80		
Gly	Phe	Arg	Val	Thr	Leu	Thr	Ser	Val	Ile	Asp	Pro	Ser	Arg	Ile	Thr
		85					90					95			
Pro	Tyr	Leu	Arg	Gln	Cys	Lys	Val	Leu	Asn	Pro	Asp	Asp	Glu	Glu	Gln
		100					105					110			
Val	Leu	Ser	Asp	Pro	Asn	Leu	Val	Ile	Arg	Lys	Arg	Lys	Val	Gly	Val
	115					120					125				
Leu	Leu	Asp	Ile	Leu	Gln	Arg	Thr	Gly	His	Lys	Gly	Tyr	Val	Ala	Phe
	130				135					140					
Leu	Glu	Ser	Leu	Glu	Leu	Tyr	Tyr	Pro	Gln	Leu	Tyr	Lys	Lys	Val	Thr
145				150					155					160	
Gly	Lys	Glu	Pro	Ala	Arg	Val	Phe	Ser	Met	Ile	Ile	Asp	Ala		
		165							170						

<210> 1663

<211> 321

<212> DNA

<213> Homo sapiens

<400> 1663

nnagtacttg tcatgattac gcttagtttg ggtatctatt tctctcagcg ttctcagatc  
 60  
 tcccgaaccc aagacgacga ggctcggaca cgcgcttcta tctcgaccct tcaagacgag  
 120  
 gtcaagaggt ggacacgatcc cgactacgtc cgtgctcagg cgcgctccca gctcggctgg  
 180  
 gtgatgccgg gcgaaactgg gtatcaggtc attggagaaa acggttaagg cattggatcg  
 240  
 acgacttctt tggacgaaaa agatccggcg agtgaagcca gcgctgacgc tcggtggttg  
 300  
 caagaggctt gcggatcagt c  
 321

<210> 1664

<211> 107

<212> PRT

<213> Homo sapiens

<400> 1664

Xaa	Val	Leu	Val	Met	Ile	Thr	Pro	Ser	Leu	Gly	Ile	Tyr	Phe	Ser	Gln
1			5						10					15	
Arg	Ser	Gln	Ile	Ser	Arg	Thr	Gln	Asp	Asp	Glu	Ala	Arg	Thr	Arg	Ala
			20					25					30		
Ser	Ile	Ser	Thr	Leu	Gln	Asp	Glu	Val	Lys	Arg	Trp	His	Asp	Pro	Asp
			35				40					45			
Tyr	Val	Arg	Ala	Gln	Ala	Arg	Ser	Gln	Leu	Gly	Trp	Val	Met	Pro	Gly
			50			55					60				
Glu	Thr	Gly	Tyr	Gln	Val	Ile	Gly	Glu	Asn	Gly	Lys	Val	Ile	Gly	Ser
65					70				75					80	
Thr	Thr	Ser	Leu	Asp	Glu	Lys	Asp	Pro	Ala	Ser	Glu	Ala	Ser	Ala	Asp
			85					90					95		
Ala	Arg	Trp	Trp	Gln	Glu	Ala	Cys	Gly	Ser	Val					
			100					105							

<210> 1665

<211> 431

<212> DNA

<213> Homo sapiens

<400> 1665

gcttccgaac tcatcaagaa gctcaagagg tataaaatgg ttttgcgctc taccggcggc  
 60  
 ggcccgacta tctccggttg tgaagtactc atgcaacgcg ctttttcgctg gaacttgctc  
 120  
 atgagtgccta agtcgatggg cattcatacc tgtatcgata cctccggttt tttgggggct  
 180  
 gcggcaacag atgacttttt agagtctgtt gatttggtgt tgctcgacgt caaatcggga  
 240  
 gatgaagaaa tctaccgtgc cctcaccggc agagcggttg aacctaccat cgatttttgg  
 300  
 gatcgtctca ccgcgctcgg taaagaaatc tggattcggg tcggttggtg ccccgatac  
 360  
 accgactcgg tagagaacgt ggaaaagggt gccgatatcg tccgcagatg gcgcaccgct  
 420

gtttcacgcg t  
431

<210> 1666

<211> 143

<212> PRT

<213> Homo sapiens

<400> 1666

Ala	Ser	Glu	Leu	Ile	Lys	Lys	Leu	Lys	Arg	Tyr	Lys	Met	Val	Leu	Arg
1				5					10					15	
Ser	Thr	Gly	Gly	Gly	Pro	Thr	Ile	Ser	Gly	Gly	Glu	Val	Leu	Met	Gln
		20						25					30		
Arg	Ala	Phe	Ala	Trp	Asn	Leu	Leu	Met	Ser	Ala	Lys	Ser	Met	Gly	Ile
		35				40						45			
His	Thr	Cys	Ile	Asp	Thr	Ser	Gly	Phe	Leu	Gly	Ala	Ala	Ala	Thr	Asp
	50					55					60				
Asp	Phe	Leu	Glu	Ser	Val	Asp	Leu	Val	Leu	Leu	Asp	Val	Lys	Ser	Gly
65				70					75					80	
Asp	Glu	Glu	Ile	Tyr	Arg	Ala	Leu	Thr	Gly	Arg	Ala	Leu	Gln	Pro	Thr
			85						90					95	
Ile	Asp	Phe	Gly	Asp	Arg	Leu	Thr	Ala	Leu	Gly	Lys	Glu	Ile	Trp	Ile
		100						105					110		
Arg	Phe	Val	Val	Val	Pro	Gly	Tyr	Thr	Asp	Ser	Val	Glu	Asn	Val	Glu
	115					120						125			
Lys	Val	Ala	Asp	Ile	Val	Arg	Arg	Trp	Arg	Thr	Ala	Val	Ser	Arg	
	130					135						140			

<210> 1667

<211> 370

<212> DNA

<213> Homo sapiens

<400> 1667

tccgctgaga ccagcgttg tgacttccca ggtgagactg tccgcaccat ggccaagatc  
60  
gttgagtcta ctgaggcccg tggcttggac aagatcgcca agatcgactg ggatccgcac  
120  
accaccagtg gcatcatgtc gaaggcagct gctgagatcg ctgagcgcgc cgaggccaag  
180  
ttcatcgtgg cctttaccaa gtccgggtgac accgccgcgc gtatcgctcg tctgcgtccg  
240  
agcaccgccg tcatcgtttt cacctctgat gagaccacga ccaagaccct cgctctgggc  
300  
tggggcgctc acgccgtcgt taccgccgtg tttaagaatg cggaggagct gtaccgctgg  
360  
gttaacgcgt  
370

<210> 1668

<211> 123

<212> PRT

<213> Homo sapiens

&lt;400&gt; 1668

```

Ser Ala Glu Thr Ser Val Gly Asp Phe Pro Gly Glu Thr Val Arg Thr
 1           5           10           15
Met Ala Lys Ile Val Glu Ser Thr Glu Ala Arg Gly Leu Asp Lys Ile
      20           25           30
Ala Lys Ile Asp Trp Asp Pro His Thr Thr Ser Gly Ile Met Ser Lys
      35           40           45
Ala Ala Ala Glu Ile Ala Glu Arg Ala Glu Ala Lys Phe Ile Val Ala
      50           55           60
Phe Thr Lys Ser Gly Asp Thr Ala Arg Arg Ile Ala Arg Leu Arg Pro
65           70           75           80
Ser Thr Pro Leu Ile Val Phe Thr Ser Asp Glu Thr Thr Thr Lys Thr
      85           90           95
Leu Ala Trp Val Trp Gly Ala His Ala Val Val Thr Pro Val Phe Lys
      100          105          110
Asn Ala Glu Glu Leu Tyr Arg Trp Val Asn Ala
      115          120

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&lt;210&gt; 1669

&lt;211&gt; 1491

&lt;212&gt; DNA

&lt;213&gt; Homo sapiens

&lt;400&gt; 1669

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ggatcctgca gtggtgatct gtcacgtca cgtcacagaa ctgaacatgg aaatgaacaa
60
cgaaaactcc acccccttct caaacgagtt attctagct ccgccccag tccttgcttc
120
tcccagcctt ggtgtaatt agcttgaaag tgggaacgag agtgcggtcc gcaaagaaa
180
gactttctgt tagacactga aatacaaaac gactgccaac gagctctggg caaagctgcc
240
ccgtcttctt ttttcgaaag accctcaaaa actgccttct cttctgctac caaaacttgg
300
gccttagaaa gtggctgcgg agtggagcag atggacatca ctgagaatgg tagaggagg
360
gctgtgtttt ctgaggggga gtcattggcag cttgtgctgg gggccaggaa gggaaaaaac
420
caatctggca ttcaggttgt ggaaggcaaa gtgaacaag aagtcatttg ggaatatatt
480
atattataaa cacatagaat aatatgtaca cgctcatata catcccaag agaagcctca
540
aggagttccg tttcttctca aaagaaactt cactatgata aagcattcct atagtgggaa
600
ttaactacaa tgaataaatt taacaatttc atttatgcta tatctgtgtc cactacagag
660
tctacgggtga aggtgtgtgt gagcgagtggt gtctagtgga ctggaacacc aacgcgttct
720
tcaaaaatag gcaatgacct gtttttttct attcacattt acaatagcta cacagtgtat
780
aaacgcagac tgaataatca aatggcagga cgatggaact gtcgtcaagg ttctcagact
840
tgtggtctct gcacctgtta tactttttgga tacgagtgag ctccacttag cttcgtaag
900

```

attagaaatt tccatgaaac acttaccac atataaattc tgtgtaaagc tttatttttt  
 960  
 tcccacaccta ctttaatttt ttttaaaaag tgaataaga ggaaaaaactc ttataaaaaa  
 1020  
 taagggttaa catacgagag agcgaggaaac accccggagg ctgccggtgc gtgtggcttc  
 1080  
 atgtttctgt gctacatgag tctagtgtcc tcattcttcca ttgtgacaac ccttctcccc  
 1140  
 ccatcacact gtcaatgagc tctaggcaaa gctgccccgt ttgcttttaa cctaagggat  
 1200  
 gctgtgggtt gggtgactac atttgactac caccactgaa ggccggcgac gtctgaagcg  
 1260  
 gctggatacc gcaacgatgg aaaatcaggc gaggtactag cgtggagggc cgggctgcc  
 1320  
 ggtcaaggct gtctgggttc tcaggagcca gtctgtgcc cagaaccatc ggcagctgcc  
 1380  
 ttcgtaaggc acctcggtct ggcattcgga aaaccacccc atcttgccag agtcccttgg  
 1440  
 tccttgggta gcaaaagccg tatgcgatct aaatcaagct ttcaatcatg a  
 1491

&lt;210&gt; 1670

&lt;211&gt; 132

&lt;212&gt; PRT

&lt;213&gt; Homo sapiens

&lt;400&gt; 1670

Met	Pro	Asp	Trp	Phe	Phe	Pro	Phe	Leu	Ala	Pro	Ser	Thr	Ser	Cys	His
1				5					10					15	
Asp	Ser	Pro	Ser	Glu	Asn	Thr	Ala	Pro	Pro	Leu	Pro	Phe	Ser	Val	Met
			20				25					30			
Ser	Ile	Cys	Ser	Thr	Pro	Gln	Pro	Leu	Ser	Arg	Ala	Gln	Val	Leu	Val
		35				40					45				
Ala	Glu	Gly	Lys	Ala	Val	Phe	Glu	Gly	Leu	Ser	Lys	Lys	Glu	Asp	Gly
	50					55				60					
Ala	Ala	Leu	Pro	Arg	Ala	Arg	Trp	Gln	Ser	Val	Cys	Ile	Ser	Val	Ser
	65			70					75						
Asn	Gln	Lys	Ser	Phe	Leu	Cys	Gly	Pro	His	Ser	Arg	Ser	His	Phe	Gln
				85				90					95		
Ala	Asn	Tyr	His	Gln	Gly	Trp	Glu	Arg	Gln	Gly	Leu	Gly	Ala	Glu	Leu
		100					105						110		
Gly	Ile	Thr	Arg	Leu	Arg	Arg	Gly	Trp	Ser	Phe	Arg	Cys	Ser	Phe	Pro
		115				120						125			
Cys	Ser	Val	Leu												
		130													

&lt;210&gt; 1671

&lt;211&gt; 432

&lt;212&gt; DNA

&lt;213&gt; Homo sapiens

&lt;400&gt; 1671

gcgcgccggg gcgggaggac gccagtcgtc ttcccgcccc tcaccacgac acgaccatta  
 60

tcgcgacgaa ggaagcccat ggctgaaacc acatcgccgg cacagcggaa acccagggcg  
 120  
 gcatcccgca tgaagccggg gtcgcggggc ggggacacga ttttcgctgg cgccctgctg  
 180  
 gttattgcca tagccctggc cgtcatcgtc atcctgatgt tcgtcttctt catgaagacg  
 240  
 gcagccccga cgttggtggc taacaccgat aactttttca cgtcccgggc ttggacaaag  
 300  
 gatcagaacc cgccggcctt tggatccag gccctgctat ggaacagagt catctcatcc  
 360  
 ctgcttgccc tgctcatcgc agtgccgctc tcggtgggca tcgctctgtt tatcaccag  
 420  
 ctgcaccta gg  
 432

&lt;210&gt; 1672

&lt;211&gt; 144

&lt;212&gt; PRT

&lt;213&gt; Homo sapiens

&lt;400&gt; 1672

Ala	Arg	Arg	Gly	Gly	Arg	Thr	Pro	Val	Val	Phe	Pro	Pro	Leu	Thr	Thr
1			5					10					15		
Thr	Arg	Pro	Leu	Ser	Arg	Arg	Arg	Lys	Pro	Met	Ala	Glu	Thr	Thr	Ser
			20					25				30			
Pro	Ala	Gln	Arg	Lys	Pro	Thr	Ala	Ala	Ser	Arg	Met	Lys	Pro	Val	Ser
		35				40						45			
Arg	Val	Gly	Asp	Thr	Ile	Phe	Ala	Gly	Ala	Ser	Ser	Val	Ile	Ala	Ile
50					55					60					
Ala	Leu	Ala	Val	Ile	Val	Ile	Leu	Met	Phe	Val	Phe	Leu	Met	Lys	Thr
65				70					75					80	
Ala	Ala	Pro	Thr	Leu	Leu	Ala	Asn	Thr	Asp	Asn	Phe	Phe	Thr	Ser	Arg
			85					90						95	
Ala	Trp	Thr	Thr	Asp	Gln	Asn	Pro	Pro	Ala	Phe	Gly	Ile	Gln	Ala	Leu
		100					105					110			
Leu	Trp	Thr	Thr	Val	Ile	Ser	Ser	Leu	Leu	Ala	Leu	Leu	Ile	Ala	Val
		115				120						125			
Pro	Leu	Ser	Val	Gly	Ile	Ala	Leu	Phe	Ile	Thr	Gln	Leu	Ala	Pro	Arg
	130					135						140			

&lt;210&gt; 1673

&lt;211&gt; 401

&lt;212&gt; DNA

&lt;213&gt; Homo sapiens

&lt;400&gt; 1673

tcgcgagcac actccagcct ctggggcgctc tgccagggcc tctgtgtttt gatatactct  
 60  
 gacctggcag tgaagctgct gatgaatgca cgacaaagac cagtttgctc cgtaaccccc  
 120  
 ggctcccagc gtctttttcca tgagccaaag gccttggtctt ggaggggggt gccctgcagc  
 180  
 tctgttgccc ttcttcagg ggagttcatt gctgggggtg gccctgcagg gacctccact  
 240

gtgctgggga ggggaagaag aaggatgcaa cagggggagg ggagaatttg agaaaatagg  
 300  
 atgcaaattc tccactgttg aataaagaaa tagagagcca ttgctaagaa ctatgtttac  
 360  
 gcagggttag tgctgggacc cagaaccagt caactggttt t  
 401

<210> 1674

<211> 113

<212> PRT

<213> Homo sapiens

<400> 1674

Met	Ala	Leu	Tyr	Phe	Phe	Ile	His	Lys	Trp	Arg	Ile	Cys	Ile	Leu	Phe
1				5					10				15		
Ser	Gln	Ile	Leu	Pro	Ser	Pro	Cys	Cys	Ile	Leu	Leu	Pro	Leu	Pro	
			20					25				30			
Ser	Thr	Val	Glu	Val	Pro	Ala	Gly	Pro	Pro	Pro	Ala	Met	Asn	Ser	Pro
		35					40				45				
Gly	Arg	Arg	Pro	Ala	Glu	Leu	Gln	Gly	Thr	Pro	Leu	Gln	Asp	Gln	Ala
	50				55					60					
Phe	Gly	Ser	Trp	Lys	Arg	Arg	Trp	Glu	Pro	Gly	Val	Thr	Glu	Gln	Thr
	65				70					75				80	
Gly	Leu	Cys	Arg	Ala	Phe	Ile	Ser	Ser	Phe	Thr	Ala	Arg	Ser	Glu	Tyr
				85					90					95	
Ile	Lys	Thr	Gln	Arg	Pro	Trp	Gln	Thr	Pro	Gln	Arg	Leu	Glu	Cys	Ala
			100					105					110		

Arg

<210> 1675

<211> 500

<212> DNA

<213> Homo sapiens

<400> 1675

gcggcgccac ccacctggga cgtggtgaaa tcggcaaaac tcacctcttt agctacctgc  
 60  
 gcgccaacgc caccggcagc ctcccacacg cctcttagag cgctgctgga cagaatggct  
 120  
 tgattgtttg gcatgctctc aggatacccg tttagccagg aaacaccggg aggcttgcta  
 180  
 ctatgcgagc agccgacgca cgggtagagg gaattccac cacagtccct cgcactccac  
 240  
 ccgcacacgc cctgggaacc gtcaccgcg gtaccaccgg gtcaatcggc tccgcaaatg  
 300  
 cgaccgctgg atgtgccacc accccgcnc a tccgcagtgc gctccgtaac gccgtctgca  
 360  
 acaccgtccc ctccgtatct gccgacacct gtgccaacac ttgtaccgat gcattgcaccg  
 420  
 atgcagcaac aggcgctccg ctccgtatcg atctgggata cggcgccgcc ccctggacca  
 480  
 ctggtgagat ggctacgcgt  
 500

<210> 1676  
 <211> 97  
 <212> PRT  
 <213> Homo sapiens

<400> 1676  
 Arg Glu Phe Pro Pro Gln Ser Leu Ala Leu His Pro His Thr Pro Trp  
 1 5 10 15  
 Glu Pro Ser Pro Ala Val Pro Pro Gly Gln Ser Ala Pro Gln Met Arg  
 20 25 30  
 Pro Leu Asp Val Pro Pro Pro Arg Xaa Ser Ala Val Arg Ser Val Thr  
 35 40 45  
 Pro Ser Ala Thr Pro Ser Pro Pro Tyr Leu Pro Thr Pro Val Pro Thr  
 50 55 60  
 Leu Val Pro Met His Ala Pro Met Gln Gln Gln Ala Leu Arg Ser Leu  
 65 70 75 80  
 Ser Ile Trp Asp Thr Ala Pro Pro Pro Gly Pro Leu Leu Arg Trp Leu  
 85 90 95  
 Arg

<210> 1677  
 <211> 631  
 <212> DNA  
 <213> Homo sapiens

<400> 1677  
 nntcatgatt tectcaatga tgccaagggtg atggaggccg gctataacctg ggtgcagggtg  
 60  
 gattttgcgc gtacgggtgc ttctactggg tgtttngac tggaatggtc cnnccggggag  
 120  
 cagcaggatg ttgtgaccgc cgtggaatgg gcggcggtag agccgtggtc gaatggtcgg  
 180  
 gtggggcctt tcggtaaate ctacgatggg gggacggggt cttattgctg caggtaatca  
 240  
 gccgcggggg ttggctgctg tgggtggcga ggagccagct atggagccct acacttacct  
 300  
 gtataacaaat gaggtccttt actacaacgc tattggtacg agcctttctt atgatgagat  
 360  
 tgctgcctcc cccggccgtg tccttcacga cactcccga tatatgaaga acagtgtcta  
 420  
 cgaggtggcc caccgcatt gcctgtccga caatttgcgt aattctttag accccatccg  
 480  
 tagccacaaa taatggggcg gatcggtctt tccctcacca agacgcataa tttccccctg  
 540  
 gcccttgctt atttccgctg gccttattga ggacaatacg gagcctgatg gtttgggtga  
 600  
 attgttgaag gaccgtaagg ctccgacgcg t  
 631

<210> 1678  
 <211> 78  
 <212> PRT

<213> Homo sapiens

<400> 1678

```
Xaa His Asp Phe Leu Asn Asp Ala Lys Val Met Glu Ala Gly Tyr Thr
  1             5             10             15
Trp Val Gln Val Asp Leu Arg Gly Thr Gly Ala Ser Thr Gly Cys Leu
      20             25             30
Xaa Leu Glu Trp Ser Xaa Gly Glu Gln Gln Asp Val Val Thr Ala Val
      35             40             45
Glu Trp Ala Ala Val Gln Pro Trp Ser Asn Gly Arg Val Gly Leu Phe
      50             55             60
Gly Lys Ser Tyr Asp Gly Gly Thr Gly Ser Tyr Cys Cys Arg
      65             70             75
```

<210> 1679

<211> 531

<212> DNA

<213> Homo sapiens

<400> 1679

```
nctacttaga gcaaaggtag gaaaagaagg cagctaggcg tggctctcat tccttcccac
  60
agaatggatt ataagtcgag cctgatccag gatgggaatc ccatggagaa cttggagaag
 120
cagctgatct gccctatctg cctggagatg tttaaccaagc cagtggtcat cttgccgtgc
 180
cagcacaacc tgtgccggaa gtgtgccaat gacatcttcc aggctgcaaa tccctactgg
 240
accagccggg gcagctcagt gtccatgtct ggaggccgtt tccgctgccc tacctgccgc
 300
cacgagtgta tcatggatcg tcacggagtg tacggcctgc agaggaacct gctggtggag
 360
aacatcatcg acatctacaa acaggagtg cccagtcggc cgctgcagaa gggcagtcac
 420
cccatgtaca aggagcacga agatgagaaa atcaacatct actgtctcac gtgtgaggtg
 480
cccacctgct ccatgtgcaa ggtgtttggg atccacaagg cctgcgaggt g
 531
```

<210> 1680

<211> 143

<212> PRT

<213> Homo sapiens

<400> 1680

```
Met Glu Asn Leu Glu Lys Gln Leu Ile Cys Pro Ile Cys Leu Glu Met
  1             5             10             15
Phe Thr Lys Pro Val Val Ile Leu Pro Cys Gln His Asn Leu Cys Arg
      20             25             30
Lys Cys Ala Asn Asp Ile Phe Gln Ala Ala Asn Pro Tyr Trp Thr Ser
      35             40             45
Arg Gly Ser Ser Val Ser Met Ser Gly Gly Arg Phe Arg Cys Pro Thr
      50             55             60
Cys Arg His Glu Val Ile Met Asp Arg His Gly Val Tyr Gly Leu Gln
```

```

65              70              75              80
Arg Asn Leu Leu Val Glu Asn Ile Ile Asp Ile Tyr Lys Gln Glu Cys
      85              90              95
Ser Ser Arg Pro Leu Gln Lys Gly Ser His Pro Met Tyr Lys Glu His
      100              105              110
Glu Asp Glu Lys Ile Asn Ile Tyr Cys Leu Thr Cys Glu Val Pro Thr
      115              120              125
Cys Ser Met Cys Lys Val Phe Gly Ile His Lys Ala Cys Glu Val
      130              135              140

```

&lt;210&gt; 1681

&lt;211&gt; 396

&lt;212&gt; DNA

&lt;213&gt; Homo sapiens

&lt;400&gt; 1681

```

gagttccaca actgcaggac agatgacaag acgttccaat gtgagatgtg tttcagattc
60
ttttccacca acagcaacct ctccaagcac aagaagaagc acggcgacaa gaagtttgcc
120
tgtgaggtct gcagcaagat gttctaccgc aaggacgtca tgctggacca ccagcgccgg
180
cacnctggaa ggagtgcggc gagtgaagcg nnagaggacc tggaggccgg tggggagaaac
240
ctggtcctgt acaagaagga gccttccggg tgcccgtgtg gtggcaaggt gttctcctgc
300
cggagcaata tgaacaagca cctgctcacc cacggcgaca agaagtacac ctgcgagatc
360
tgccggcgca agttcttccg cgtggatgtg ctcagg
396

```

&lt;210&gt; 1682

&lt;211&gt; 132

&lt;212&gt; PRT

&lt;213&gt; Homo sapiens

&lt;400&gt; 1682

```

Glu Phe His Asn Cys Arg Thr Asp Asp Lys Thr Phe Gln Cys Glu Met
1      5      10      15
Cys Phe Arg Phe Phe Ser Thr Asn Ser Asn Leu Ser Lys His Lys Lys
      20      25      30
Lys His Gly Asp Lys Lys Phe Ala Cys Glu Val Cys Ser Lys Met Phe
      35      40      45
Tyr Arg Lys Asp Val Met Leu Asp His Gln Arg Arg His Xaa Gly Arg
      50      55      60
Ser Ala Ala Ser Glu Ala Xaa Glu Asp Leu Glu Ala Gly Gly Glu Asn
      65      70      75      80
Leu Val Arg Tyr Lys Lys Glu Pro Ser Gly Cys Pro Val Cys Gly Lys
      85      90      95
Val Phe Ser Cys Arg Ser Asn Met Asn Lys His Leu Leu Thr His Gly
      100      105      110
Asp Lys Lys Tyr Thr Cys Glu Ile Cys Gly Arg Lys Phe Phe Arg Val
      115      120      125
Asp Val Leu Arg

```

130

&lt;210&gt; 1683

&lt;211&gt; 676

&lt;212&gt; DNA

&lt;213&gt; Homo sapiens

&lt;400&gt; 1683

```

nncggccgga caggtcccga gcagccccgc ccaacatgga cccagacccc caggcgggag
60
tgcaggtggg catgcgggtg gtgcgcggcg tggaccggaa gtggggccag caggacggcg
120
gcgagggcgg cgtgggcacg gtggtggagc ttggccgcca cggcagcccc tcgacacccc
180
accgcacagt ggtcgtgcag tgggaccagg gcacgcgcac caactaccgc gccggctacc
240
agggcgcgca cgacctgctg ctgtacgaca acgcccagat cggcgctcgg caccccaaca
300
tcactctgta ctgctgcaag aagcacgggc tgcgggggat gcgctggaag tgccgtgtgt
360
gcctggacta cgacctctgc acgcagtgtc acatgcacaa caagcatgag ctcgccccag
420
ccttcgaccg ctacgagacc gctcaactgc gccctgtcac actgagtccc cgccagggcc
480
tcccagggat cccactaagg ggcattcttc agggagcgaa ggtggtgcga gggcccagat
540
gggagtgagg ctcacaggat ggtgagtgga ggcagagggg cggggtcagg gctgggctgt
600
ggctggctca tggctcagcc ttagcctgct gggggggcct ctttccccag gagggaaggg
660
aaaccgggcc gccgga
676

```

&lt;210&gt; 1684

&lt;211&gt; 154

&lt;212&gt; PRT

&lt;213&gt; Homo sapiens

&lt;400&gt; 1684

```

Xaa Gly Arg Thr Gly Pro Glu Gln Pro Arg Pro Thr Trp Thr Gln Thr
1      5      10      15
Pro Arg Arg Ala Cys Arg Trp Ala Cys Gly Trp Cys Ala Ala Trp Thr
20      25      30
Gly Ser Gly Ala Ser Arg Thr Ala Ala Arg Ala Ala Trp Ala Arg Trp
35      40      45
Trp Ser Leu Ala Ala Thr Ala Ala Pro Arg His Pro Thr Ala Gln Trp
50      55      60
Ser Cys Ser Gly Thr Arg Ala Arg Ala Pro Thr Thr Thr Ala Pro Ala Thr
65      70      75      80
Arg Ala Arg Thr Thr Cys Cys Cys Thr Thr Thr Pro Arg Ser Ala Ser
85      90      95
Gly Thr Pro Thr Ser Ser Val Thr Ala Ala Arg Ser Thr Gly Cys Gly
100     105     110
Gly Cys Ala Gly Ser Ala Val Cys Ala Trp Thr Thr Thr Ser Ala Arg

```

115	120	125
Ser Ala Thr Cys Thr Thr Ser Met Ser Ser Pro Thr Pro Ser Thr Ala		
130	135	140
Thr Arg Pro Leu Thr Arg Ala Leu Ser His		
145	150	

&lt;210&gt; 1685

&lt;211&gt; 2740

&lt;212&gt; DNA

&lt;213&gt; Homo sapiens

&lt;400&gt; 1685

```

ngaggaggag ccggcgggcg ctccggggaa agggaggggg gcgctccgca gccgccggcg
60
cccagggggt ggcgagggaa aggcgtacgc gctcagcaga gggcgggcag cggcggggag
120
ggggcctccc ctctccatc ctctctctct gcgggcaaaa cccaggaac cggcagcaga
180
aactccgaa gcggcggttg gggggcggc agcggtggtg gaggagcta ctggaagaa
240
ggatgtctgc agtctgagct catccagttc catctcaaga aggagcgggc ggcagcggcg
300
gcggcccgcg ctcatagca cgctaagaac gcggcgcgca gcagtagccg cagctccccg
360
gtgtctggcc cccctgccgt ttgcgagacc ctggcgtcg cctccgcctc ccaatggcg
420
gcggcgggcg agggccccc gcagagcgca gaggcgagcg cgagcgggcg gggcatgcag
480
gcggcagcgc ccccttcgtc gcagccgcac ccgcagcagc tccaagagca ggaagaaatg
540
caagaggaga tggagaagct gcgagaggaa aacgagactc tcaagaacga gatcgatgag
600
ctgagaaccg agatggacga gatgagggac actttcttcg aggaggatgc ctgtcaactg
660
caggaaatgc gccacgagtt ggagagagcc aacaaaaact gcggatctct gcagtaccgc
720
ctccgcaaag ccgagcgcaa aaggctccgc tacgccaga ccgggggaaat cgaaggggag
780
ctgttcgcga gcctggagca ggacctcaag gttgcaaagg atgtatctgt gagacttcac
840
catgaattag aaaatgtgga agaaaagaga acaacaacag aagatgaaaa tgagaaactg
900
aggcaacagc tcatagaagt tgaattgca aagcaagctt tacagaatga actggaaaaa
960
atgaaagagt tatccttaaa aagaagagga agcaaagatt tgccaaaatc tgaaaaaag
1020
gctcaacaga ctccacaga ggaggacaat gaagatctga agtgccagct gcagtttgtt
1080
aagggaaga cgcgtttgat gagaagaaa atggccaaga ttgataaaga aaaggacaga
1140
tttgaacacg agctccagaa gtacagatcc ttttatgggg atctggacag tcctttggcc
1200
aaaggagaag ccggaggccc tcccagcact agggaggcgg agctcaagct acggctaagg
1260

```

ctggtggagg aagaagccaa catcctgggc aggaaaaatcg tcgaactgga ggtggagAAC  
 1320  
 agaggcctga aggcggaact ggacgacctt agggggcgatg acnnttcaac ggctcggcca  
 1380  
 acccgctcat gagggagca gagcgaatcc ctgtcggagc tgcggcgagc cctgcagctg  
 1440  
 gtggaagacg agacggagct gctgcggagg aacgtggccg acctggagga gcagaacaag  
 1500  
 cgcatacagg cggagctcaa caagtacaag tacaagnntc cggcggccac gacagcgcgc  
 1560  
 ggcaaccaga caacgccana gaccgaggcc ctgcaggagg agctgaaggc ggcgcgctg  
 1620  
 cagatcaacg agctcagcgg caaggtcatg cagctgcagt acgagaaccg cgtgcttatg  
 1680  
 tccaacatgc agcgctacga cctggcctcg cacctgggca tcccgcgag cccccgcgac  
 1740  
 agcgacgcgg agagcgagc gggcaagaag gagagcgagc acgactcgcg gcctccgcac  
 1800  
 cgcaagcgcg aagggcccat cggcggcgag agcgactcgg agggagtggn cgcaacatcc  
 1860  
 gctgcctcan cgcctactcg ctctttctac ccggcgcccg ggcctgggcc caagagcttc  
 1920  
 tccgatcggc agcagatgaa ggacatccg tcggaggccg agcgctcggg caagaccatc  
 1980  
 gaccggctca tcgccgacac gagcaccatc atcaccgagg cgcgcacnt acgtggccaa  
 2040  
 cggggagcctg ttncggact catggacgag gaggacgagc gcagccgcac ccgggagcac  
 2100  
 gagctgctct accgcatcaa cgctcagatg aaggccttcc gcaaggagct gcagaccttc  
 2160  
 atcgaccgcc tcgaggtgcc caagtctgag gacgaccgag cgcccgagga gccattttcc  
 2220  
 gtgagtcaga tgttcagacc tatcatttta cttatttctca ttcttgtatt attttcatca  
 2280  
 ctttcttaca caacaatatt taaacttgct ttctttttta cactgttttt tgtactgtaa  
 2340  
 atctttcacc atttaccatt cattgtagta ttttcagttt gtttattttg ttcacccttc  
 2400  
 aagacaagaa gtaaaagaag tataattttc gtatgaacca atgtataaa aacactgaag  
 2460  
 actgcttatt tctttacaaa gatacaactc atcttaccac gaccacaaatc aataagaagc  
 2520  
 ccaaacacta aaatatattca ggtaagaaag tgtgacattt ttctgtatga attgttttaa  
 2580  
 tttttacttc ttttttcat cctgtttgtc tcctcttgat aaataattgg catactgaat  
 2640  
 ataaaaatgg actacatgtc tcataattat ttctcagtag ttactatta ttattcaaaa  
 2700  
 gctggacgga cattcacaat ttggtcacat ttccaaaaag  
 2740

&lt;210&gt; 1686

&lt;211&gt; 463

&lt;212&gt; PRT

&lt;213&gt; Homo sapiens

&lt;400&gt; 1686

Xaa Gly Gly Ala Gly Gly Gly Ser Gly Glu Arg Glu Gly Gly Ala Pro  
 1 5 10 15  
 Gln Pro Pro Pro Arg Gly Trp Arg Gly Lys Gly Val Arg Ala Gln  
 20 25 30  
 Gln Arg Gly Gly Ser Gly Gly Glu Gly Ala Ser Pro Ser Ser Ser  
 35 40 45  
 Ser Ser Ala Gly Lys Thr Pro Gly Thr Gly Ser Arg Asn Ser Gly Ser  
 50 55 60  
 Gly Val Ala Gly Gly Gly Ser Gly Gly Gly Gly Ser Tyr Trp Lys Glu  
 65 70 75 80  
 Gly Cys Leu Gln Ser Glu Leu Ile Gln Phe His Leu Lys Lys Glu Arg  
 85 90 95  
 Ala Ala Ala Ala Ala Ala Ala Gln Met His Ala Lys Asn Gly Gly  
 100 105 110  
 Gly Ser Ser Ser Arg Ser Ser Pro Val Ser Gly Pro Pro Ala Val Cys  
 115 120 125  
 Glu Thr Leu Ala Val Ala Ser Ala Ser Pro Met Ala Ala Ala Ala Glu  
 130 135 140  
 Gly Pro Gln Gln Ser Ala Glu Gly Ser Ala Ser Gly Gly Met Gln  
 145 150 155 160  
 Ala Ala Ala Pro Pro Ser Ser Gln Pro His Pro Gln Gln Leu Gln Glu  
 165 170 175  
 Gln Glu Glu Met Gln Glu Glu Met Glu Lys Leu Arg Glu Glu Asn Glu  
 180 185 190  
 Thr Leu Lys Asn Glu Ile Asp Glu Leu Arg Thr Glu Met Asp Glu Met  
 195 200 205  
 Arg Asp Thr Phe Phe Glu Glu Asp Ala Cys Gln Leu Gln Glu Met Arg  
 210 215 220  
 His Glu Leu Glu Arg Ala Asn Lys Asn Cys Arg Ile Leu Gln Tyr Arg  
 225 230 235 240  
 Leu Arg Lys Ala Glu Arg Lys Arg Leu Arg Tyr Ala Gln Thr Gly Glu  
 245 250 255  
 Ile Asp Gly Glu Leu Leu Arg Ser Leu Glu Gln Asp Leu Lys Val Ala  
 260 265 270  
 Lys Asp Val Ser Val Arg Leu His His Glu Leu Glu Asn Val Glu Glu  
 275 280 285  
 Lys Arg Thr Thr Thr Glu Asp Glu Asn Glu Lys Leu Arg Gln Gln Leu  
 290 295 300  
 Ile Glu Val Glu Ile Ala Lys Gln Ala Leu Gln Asn Glu Leu Glu Lys  
 305 310 315 320  
 Met Lys Glu Leu Ser Leu Lys Arg Arg Gly Ser Lys Asp Leu Pro Lys  
 325 330 335  
 Ser Glu Lys Lys Ala Gln Gln Thr Pro Thr Glu Glu Asp Asn Glu Asp  
 340 345 350  
 Leu Lys Cys Gln Leu Gln Phe Val Lys Glu Glu Ala Ala Leu Met Arg  
 355 360 365  
 Lys Lys Met Ala Lys Ile Asp Lys Glu Lys Asp Arg Phe Glu His Glu  
 370 375 380  
 Leu Gln Lys Tyr Arg Ser Phe Tyr Gly Asp Leu Asp Ser Pro Leu Pro  
 385 390 395 400  
 Lys Gly Glu Ala Gly Gly Pro Pro Ser Thr Arg Glu Ala Glu Leu Lys

```

                405                410                415
Leu Arg Leu Arg Leu Val Glu Glu Ala Asn Ile Leu Gly Arg Lys
                420                425                430
Ile Val Glu Leu Glu Val Glu Asn Arg Gly Leu Lys Ala Glu Leu Asp
                435                440                445
Asp Leu Arg Gly Asp Asp Xaa Ser Thr Ala Arg Pro Thr Arg Ser
                450                455                460

```

<210> 1687  
 <211> 326  
 <212> DNA  
 <213> Homo sapiens

```

<400> 1687
gtgcacacag gtgagcgtcc ctacaagtgt ccacactgcg actatgcagg taccagtcg
60
ggctcgctca agtatcacct tcagcgtcac caccgagagc agaagaacag tgcgggttcc
120
tgggcctccc ccagaacccc cgccaccttc ccagcggggc tcaactgcagc cgagtcagg
180
agccaagcca actcaggcct cagccacctg ggtagagggc actgcaagta cccggcctcc
240
ttcgagcagc accggaccag ggtcccgtag gaagcctgct agccttggga ggaccctgag
300
aaacggcgat gtggtgaagc cgaact
326

```

<210> 1688  
 <211> 89  
 <212> PRT  
 <213> Homo sapiens

```

<400> 1688
Val His Thr Gly Glu Arg Pro Tyr Lys Cys Pro His Cys Asp Tyr Ala
1      5      10      15
Gly Thr Gln Ser Gly Ser Leu Lys Tyr His Leu Gln Arg His His Arg
20     25     30
Glu Gln Lys Asn Ser Ala Gly Ser Trp Ala Ser Pro Arg Thr Pro Ala
35     40     45
Thr Phe Pro Ala Gly Leu Thr Ala Ala Val Arg Ser Gln Ala Asn
50     55     60
Ser Gly Leu Ser His Leu Gly Arg Gly His Cys Lys Tyr Pro Ala Ser
65     70     75     80
Phe Glu Gln His Arg Thr Arg Val Pro
85

```

<210> 1689  
 <211> 301  
 <212> DNA  
 <213> Homo sapiens

```

<400> 1689
nggggaagcc atggctgctt aaggacaatg cactgtcagc tcggtgatgt cttgatttgg
60

```

tctgggattc tgcacttagt aattgcagat aatactcatg tggcgccaag gaaaaaaaaa  
 120  
 ttggcctttt cccagttccat taagcctaaa caaaccacat cactttacat caggcagatc  
 180  
 atgtgggtacc agaattttcc agtttggcgg actatcttga tcaaataaac taaattattg  
 240  
 ccactgtggc tatctgtgaa agaacacaat gaagaaaatc tggagcctta tctcatactc  
 300  
 a  
 301

<210> 1690

<211> 91

<212> PRT

<213> Homo sapiens

<400> 1690

Met His Cys Gln Leu Gly Asp Val Leu Ile Trp Ser Gly Ile Leu His  
 1 5 10 15  
 Leu Val Ile Ala Asp Asn Thr His Val Ala Pro Arg Lys Lys Lys Leu  
 20 25 30  
 Ala Phe Ser Gln Ser Ile Lys Pro Lys Gln Thr Thr Ser Leu Tyr Ile  
 35 40 45  
 Arg Gln Ile Met Trp Tyr Gln Asn Phe Pro Val Trp Arg Thr Ile Leu  
 50 55 60  
 Ile Lys Ser Thr Lys Leu Leu Pro Leu Trp Leu Ser Val Lys Glu His  
 65 70 75 80  
 Asn Glu Glu Asn Leu Glu Pro Tyr Leu Ile Leu  
 85 90

<210> 1691

<211> 483

<212> DNA

<213> Homo sapiens

<400> 1691

nacgcgttcc ggtatgccga tgggcccgtg ctgctgggcg tccgccggcg gcgcggtgag  
 60  
 ttgtgccttg aagtgtggga ccgcggcccc ggcattcctc aagacaaca aaagtcatc  
 120  
 ttcgaagaat tcaaacgcct ggacagtcac cagaccgcg cggagaaagg cctgggcctg  
 180  
 ggccctggcga ttgccgacgg cttgtgcccgc gtgctcgggc atcgcttgag cgtgcgttcg  
 240  
 tggccgggca agggcagcgt gttcagcgtg cgcgtgccgt tggcgcgcac ccaggtcagc  
 300  
 gcgcctgccca agccggcgca ggaagcggc cagccgttga gtggcgcgca ggtgctgtgt  
 360  
 gtgaataaca aagaagcat cctgatcggc atgcgcagct tgctcccgcg ctggggctgc  
 420  
 gaagtctggc ccgcgcgcga ccaggcgcaa tgtgccgcgc tgttggctga ggggtgtgcg  
 480  
 ccg  
 483

<210> 1692  
 <211> 161  
 <212> PRT  
 <213> Homo sapiens

<400> 1692  
 Xaa Ala Phe Arg Tyr Ala Asp Gly Pro Val Leu Leu Gly Val Arg Arg  
 1 5 10 15  
 Arg Arg Gly Glu Leu Cys Leu Glu Val Trp Asp Arg Gly Pro Gly Ile  
 20 25 30  
 Pro Gln Asp Lys Gln Lys Ser Phe Phe Glu Glu Phe Lys Arg Leu Asp  
 35 40 45  
 Ser His Gln Thr Arg Ala Glu Lys Gly Leu Gly Leu Gly Leu Ala Ile  
 50 55 60  
 Ala Asp Gly Leu Cys Arg Val Leu Gly His Arg Leu Ser Val Arg Ser  
 65 70 75 80  
 Trp Pro Gly Lys Gly Ser Val Phe Ser Val Arg Val Pro Leu Ala Arg  
 85 90 95  
 Thr Gln Val Ser Ala Pro Ala Lys Pro Ala Gln Glu Ser Gly Gln Pro  
 100 105 110  
 Leu Ser Gly Ala Gln Val Leu Cys Val Asn Asn Lys Glu Ser Ile Leu  
 115 120 125  
 Ile Gly Met Arg Ser Leu Leu Pro Arg Trp Gly Cys Glu Val Trp Pro  
 130 135 140  
 Ala Arg Asp Gln Ala Gln Cys Ala Ala Leu Leu Ala Glu Gly Val Arg  
 145 150 155 160  
 Pro

<210> 1693  
 <211> 333  
 <212> DNA  
 <213> Homo sapiens

<400> 1693  
 acgcgtgttc catctgcagc cgtgcgaaaa ctctcccacc atgtgcgaga ctggatactt  
 60  
 cgaggatcca agctactaca agtgtgacac agatgacacc ttccaagccc gagaggagat  
 120  
 actggggggg atgaggcctt cgacactgcc aactcctcca tcgtgtcttg cgagagatat  
 180  
 cggttttttt tcaatgtcaa ccttgagatg caggccacca acactgagaa tgaagcgact  
 240  
 tcgggtggct gtgtgtctct gcacacctcc cgaaaggcca gcactgtcct gaacgagagc  
 300  
 gccacactcc tggataacgt gctgcggacc atg  
 333

<210> 1694  
 <211> 110  
 <212> PRT  
 <213> Homo sapiens

&lt;400&gt; 1694

```

Met Val Arg Ser Thr Leu Ser Arg Glu Val Ala Val Ser Phe Arg Thr
 1             5             10             15
Met Leu Ala Phe Arg Glu Val Cys Arg Ser Thr Gln Pro Pro Glu Val
             20             25             30
Ala Ser Phe Ser Val Leu Val Ala Cys Ile Ser Arg Leu Thr Leu Thr
             35             40             45
Lys Lys Arg Ile Leu Ser Pro Asp Thr Met Glu Glu Leu Ala Val Ser
             50             55             60
Lys Ala Ser Ser Pro Pro Val Ser Pro Leu Gly Leu Arg Arg Cys His
65             70             75             80
Leu Cys His Thr Cys Ser Ser Leu Asn Pro Arg Ser Ile Gln Ser Ala
             85             90             95
Thr Trp Trp Glu Ser Phe Arg Thr Ala Ala Asp Gly Thr Arg
             100             105             110

```

&lt;210&gt; 1695

&lt;211&gt; 485

&lt;212&gt; DNA

&lt;213&gt; Homo sapiens

&lt;400&gt; 1695

```

tgatcagctt tatcaggagt ttttgcaagt accgcagatt tatgttgaat cctagtaagc
60
gccaggaatt tgaagactat cttcaccagg aaatgcaaaa tagcaaggaa aatttcacca
120
cagcacacaa cacatcgga cgttcagctc caccctccac aaatgtccgg agtcagacg
180
aagagaatgg agaaataacc cttgtaaagc gtcgtatatt tggccacagg attatcaactg
240
tcaactttgc gatcaatgat ctatatctt tttctgaaat ggagaaatatt aatgatctgg
300
tcagttcage ccacatgctg caggtcaacc gggcatataa tgagaatgat gtgatcctaa
360
tgcggtccaa aatgaacatt atccaaaaac ttttctgaa tttctgacatc cctccaaagc
420
tgagggtgaa tgtccctgag ttccagaagg atgccatcct tgctgccatc acagaggggt
480
accta
485

```

&lt;210&gt; 1696

&lt;211&gt; 148

&lt;212&gt; PRT

&lt;213&gt; Homo sapiens

&lt;400&gt; 1696

```

Met Leu Asn Pro Ser Lys Arg Gln Glu Phe Glu Asp Tyr Leu His Gln
 1             5             10             15
Glu Met Gln Asn Ser Lys Glu Asn Phe Thr Thr Ala His Asn Thr Ser
             20             25             30
Gly Arg Ser Ala Pro Pro Ser Thr Asn Val Arg Ser Ala Asp Gln Glu
             35             40             45
Asn Gly Glu Ile Thr Leu Val Lys Arg Arg Ile Phe Gly His Arg Ile

```

```

      50              55              60
Ile Thr Val Asn Phe Ala Ile Asn Asp Leu Tyr Phe Phe Ser Glu Met
65              70              75              80
Glu Lys Phe Asn Asp Leu Val Ser Ser Ala His Met Leu Gln Val Asn
      85              90              95
Arg Ala Tyr Asn Glu Asn Asp Val Ile Leu Met Arg Ser Lys Met Asn
      100             105             110
Ile Ile Gln Lys Leu Phe Leu Asn Ser Asp Ile Pro Pro Lys Leu Arg
      115             120             125
Val Asn Val Pro Glu Phe Gln Lys Asp Ala Ile Leu Ala Ala Ile Thr
      130             135             140
Glu Gly Tyr Leu
145

```

```

<210> 1697
<211> 337
<212> DNA
<213> Homo sapiens

```

```

<400> 1697
accaggttcc caccatcctc aggggaatca caggttactg gctttggaga ccgagatgtc
60
ttccccgcctc ccaggggcct gtggatggga ctccctcgga attcgactcc caggggaaaa
120
gccaaagagct gcctccttgg gacaactggg gcggcagctg tgatcgcaaa tggcttcagc
180
agaggcctga gcggctgcct ccgttgccca gcaggctctg agagcaactg cccggcctga
240
ctgttcaccc atcctttcac ccggaggcca gctgtggctg tctgtgctct cagaggggag
300
gcgatgggca aggcgcctgc catgcagatg ggtgggtg
337

```

```

<210> 1698
<211> 107
<212> PRT
<213> Homo sapiens

```

```

<400> 1698
Met Ala Gly Ala Leu Pro Ile Ala Ser Pro Leu Arg Ala Gln Thr Ala
1      5      10      15
Thr Ala Gly Leu Arg Val Lys Gly Trp Met Asn Ser Gln Ala Gly Arg
      20      25      30
Val Leu Ser Glu Pro Ala Gly Gln Arg Arg Gln Pro Leu Arg Pro Leu
      35      40      45
Leu Lys Pro Cys Ala Ile Thr Ala Ala Ala Pro Val Val Pro Arg Arg
      50      55      60
Gln Leu Leu Ala Phe Pro Leu Gly Val Glu Phe Ala Gly Ser Pro Ile
65      70      75      80
His Arg Pro Leu Gly Gly Lys Thr Ser Arg Ser Pro Lys Pro Val
      85      90      95
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&lt;210&gt; 1699

&lt;211&gt; 442

&lt;212&gt; DNA

&lt;213&gt; Homo sapiens

&lt;400&gt; 1699

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&lt;210&gt; 1700

&lt;211&gt; 147

&lt;212&gt; PRT

&lt;213&gt; Homo sapiens

&lt;400&gt; 1700

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&lt;211&gt; 8265

&lt;212&gt; DNA

&lt;213&gt; Homo sapiens

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<211> 2541

<212> PRT

<213> Homo sapiens

<400> 1702

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Leu	Asp	Asp	Phe	Asp	Thr	Leu	Pro	Pro	Leu	Gly	Gln	Asp	Ala	Ala	Ser			
				515			520					525						
Lys	Ala	Trp	Arg	Lys	Asn	Lys	Met	Asp	Glu	Ser	Lys	His	Glu	Ile	His			
				530		535					540							
Ser	Gln	Val	Asp	Ala	Ile	Thr	Ala	Gly	Thr	Ala	Ser	Val	Val	Asn	Leu			
545					550				555					560				
Thr	Ala	Gly	Asp	Pro	Ala	Glu	Thr	Asp	Tyr	Thr	Ala	Val	Gly	Cys	Ala			
				565					570					575				
Val	Thr	Thr	Ile	Ser	Ser	Asn	Leu	Thr	Glu	Met	Ser	Arg	Gly	Val	Lys			
				580				585					590					
Leu	Leu	Ala	Ala	Leu	Leu	Glu	Asp	Glu	Gly	Gly	Ser	Gly	Arg	Pro	Leu			
				595			600					605						
Leu	Gln	Ala	Ala	Lys	Gly	Leu	Ala	Gly	Ala	Val	Ser	Glu	Leu	Leu	Arg			
						615					620							
Ser	Ala	Gln	Pro	Ala	Ser													

[illegible]

1170	1175	1180
Leu Ala Gln Val	Ala Lys Ala Val	Thr Gln Ala Leu Asn Arg Cys Val
1185	1190	1195
Ser Cys Leu Pro	Gly Gln Arg Asp	Val Asp Asn Ala Leu Arg Ala Val
	1205	1210
Gly Asp Ala Ser	Lys Arg Leu Leu Ser Asp Ser Leu Pro Pro Ser Thr	
	1220	1225
Gly Thr Phe Gln Glu Ala	Gln Ser Arg Leu Asn Glu Ala Ala Ala Gly	
	1235	1240
Leu Asn Gln Ala Ala Thr	Glu Leu Val Gln Ala Ser Arg Gly Thr Pro	
	1250	1255
Gln Asp Leu Ala Arg Ala	Ser Gly Arg Phe Gly Gln Asp Phe Ser Thr	
	1265	1270
Phe Leu Glu Ala Gly Val	Glu Met Ala Gly Gln Ala Pro Ser Gln Glu	
	1285	1290
Asp Arg Ala Gln Val Val	Ser Asn Leu Lys Gly Ile Ser Met Ser Ser	
	1300	1305
Ser Lys Leu Leu Leu Ala	Ala Lys Ala Leu Ser Thr Asp Pro Ala Ala	
	1315	1320
Pro Asn Leu Lys Ser Gln	Leu Ala Ala Ala Ala Arg Ala Val Thr Asp	
	1330	1335
Ser Ile Asn Gln Leu Ile Thr	Met Cys Thr Gln Gln Ala Pro Gly Gln	
	1345	1350
Lys Glu Cys Asp Asn Ala	Leu Arg Glu Leu Glu Thr Val Arg Glu Leu	
	1365	1370
Leu Glu Asn Pro Val Gln	Pro Ile Asn Asp Met Ser Tyr Phe Gly Cys	
	1380	1385
Leu Asp Ser Val Met Glu	Asn Ser Lys Val Leu Gly Glu Ala Met Thr	
	1395	1400
Gly Ile Ser Gln Asn Ala	Lys Asn Gly Asn Leu Pro Glu Phe Gly Asp	
	1410	1415
Ala Ile Ser Thr Ala Ser	Lys Ala Leu Cys Gly Phe Thr Glu Ala Ala	
	1425	1430
Ala Gln Ala Ala Tyr Leu	Val Gly Val Ser Asp Pro Asn Ser Gln Ala	
	1445	1450
Gly Gln Gln Gly Leu Val	Glu Pro Thr Gln Phe Ala Arg Ala Asn Gln	
	1460	1465
Ala Ile Gln Met Ala Cys	Gln Ser Leu Gly Glu Pro Gly Cys Thr Gln	
	1475	1480
Ala Gln Val Leu Ser Ala	Ala Thr Ile Val Ala Lys His Thr Ser Ala	
	1490	1495
Leu Cys Asn Ser Cys Arg	Leu Ala Ser Ala Arg Thr Thr Asn Pro Thr	
	1505	1510
Ala Lys Arg Gln Phe Val	Gln Ser Ala Lys Glu Val Ala Asn Ser Thr	
	1525	1530
Ala Asn Leu Val Lys Thr	Ile Lys Ala Leu Asp Gly Ala Phe Thr Glu	
	1540	1545
Glu Asn Arg Ala Gln Cys	Arg Ala Ala Thr Ala Pro Leu Leu Glu Ala	
	1555	1560
Val Asp Asn Leu Ser Ala	Phe Ala Ser Asn Pro Glu Phe Ser Ser Ile	
	1570	1575
Pro Ala Gln Ile Ser Pro	Glu Gly Arg Ala Ala Met Glu Pro Ile Val	
	1585	1590
Ile Ser Ala Lys Thr Met	Leu Glu Ser Ala Gly Gly Leu Ile Gln Thr	

1605 1610 1615  
 Ala Arg Ala Leu Ala Val Asn Pro Arg Asp Pro Pro Ser Trp Ser Val  
 1620 1625 1630  
 Leu Ala Gly His Ser Arg Thr Val Ser Asp Ser Ile Lys Lys Leu Ile  
 1635 1640 1645  
 Thr Ser Met Arg Asp Lys Ala Pro Gly Gln Leu Glu Cys Glu Thr Ala  
 1650 1655 1660  
 Ile Ala Ala Leu Asn Ser Cys Leu Arg Asp Leu Asp Gln Ala Ser Leu  
 1665 1670 1675 1680  
 Ala Ala Val Ser Gln Gln Leu Ala Pro Arg Glu Gly Ile Ser Gln Glu  
 1685 1690 1695  
 Ala Leu His Thr Gln Met Leu Thr Ala Val Gln Glu Ile Ser His Leu  
 1700 1705 1710  
 Ile Glu Pro Leu Ala Asn Ala Ala Arg Ala Glu Ala Ser Gln Leu Gly  
 1715 1720 1725  
 His Lys Val Ser Gln Met Ala Gln Tyr Phe Glu Pro Leu Thr Leu Ala  
 1730 1735 1740  
 Ala Val Gly Ala Ala Ser Lys Thr Leu Ser His Pro Gln Gln Met Ala  
 1745 1750 1755 1760  
 Leu Leu Asp Gln Thr Lys Thr Leu Ala Glu Ser Ala Leu Gln Leu Leu  
 1765 1770 1775  
 Tyr Thr Ala Lys Glu Ala Gly Gly Asn Pro Lys Gln Ala Ala His Thr  
 1780 1785 1790  
 Gln Glu Ala Leu Glu Glu Ala Val Gln Met Met Thr Glu Ala Val Glu  
 1795 1800 1805  
 Asp Leu Thr Thr Thr Leu Asn Glu Ala Ala Ser Ala Ala Gly Val Val  
 1810 1815 1820  
 Gly Gly Met Val Asp Ser Ile Thr Gln Ala Ile Asn Gln Leu Asp Glu  
 1825 1830 1835 1840  
 Gly Pro Met Gly Glu Pro Glu Gly Ser Phe Val Asp Tyr Gln Thr Thr  
 1845 1850 1855  
 Met Val Arg Thr Ala Lys Ala Ile Ala Val Thr Val Gln Glu Met Val  
 1860 1865 1870  
 Thr Lys Ser Asn Thr Ser Pro Glu Glu Leu Gly Pro Leu Ala Asn Gln  
 1875 1880 1885  
 Leu Thr Ser Asp Tyr Gly Arg Leu Ala Ser Glu Ala Lys Pro Ala Ala  
 1890 1895 1900  
 Val Ala Ala Glu Asn Glu Glu Ile Gly Ser His Ile Lys His Arg Val  
 1905 1910 1915 1920  
 Gln Glu Leu Gly His Gly Cys Ala Ala Leu Val Thr Lys Ala Gly Ala  
 1925 1930 1935  
 Leu Gln Cys Ser Pro Ser Asp Ala Tyr Thr Lys Lys Glu Leu Ile Glu  
 1940 1945 1950  
 Cys Ala Arg Arg Val Ser Glu Lys Val Ser His Val Leu Ala Ala Leu  
 1955 1960 1965  
 Gln Ala Gly Asn Arg Gly Thr Gln Ala Cys Ile Thr Ala Ala Ser Ala  
 1970 1975 1980  
 Val Ser Gly Ile Ile Ala Asp Leu Asp Thr Thr Ile Met Phe Ala Thr  
 1985 1990 1995 2000  
 Ala Gly Thr Leu Asn Arg Glu Gly Thr Glu Thr Ser Ala Asp His Arg  
 2005 2010 2015  
 Glu Gly Ile Leu Lys Thr Ala Lys Val Leu Val Glu Asp Thr Lys Val  
 2020 2025 2030  
 Leu Val Gln Asn Ala Ala Gly Ser Gln Glu Lys Leu Ala Gln Ala Ala

2035				2040				2045			
Gln Ser Ser Val	Ala Thr	Ile Thr	Arg Leu	Ala Asp	Val Val	Lys Leu					
2050		2055		2060							
Gly Ala Ala Ser	Leu Gly	Ala Glu	Asp Pro	Glu Thr	Gln Val	Val Leu					
2065		2070		2075		2080					
Ile Asn Ala Val	Lys Asp	Val Ala	Lys Ala	Leu Gly	Asp Leu	Ile Ser					
	2085		2090		2095						
Ala Thr Lys Ala	Ala Ala	Gly Lys	Val Gly	Asp Asp	Pro Ala	Val Trp					
	2100		2105		2110						
Gln Leu Lys Asn	Ser Ala	Lys Val	Met Val	Thr Asn	Val Thr	Ser Leu					
	2115		2120		2125						
Leu Lys Thr Val	Lys Ala	Val Glu	Asp Glu	Ala Thr	Lys Gly	Thr Arg					
	2130		2135		2140						
Ala Leu Glu Ala	Thr Thr	Glu His	Ile Arg	Gln Glu	Leu Ala	Val Phe					
2145		2150		2155		2160					
Cys Ser Pro Glu	Pro Pro	Ala Lys	Thr Ser	Thr Pro	Glu Asp	Phe Ile					
	2165		2170		2175						
Arg Met Thr Lys	Gly Ile	Thr Met	Ala Thr	Ala Lys	Ala Val	Ala Ala					
	2180		2185		2190						
Gly Asn Ser Cys	Arg Gln	Glu Asp	Val Ile	Ala Thr	Ala Asn	Leu Ser					
	2195		2200		2205						
Arg Arg Ala Ile	Ala Asp	Met Leu	Arg Ala	Cys Lys	Glu Ala	Ala Tyr					
	2210		2215		2220						
His Pro Glu Val	Ala Pro	Asp Val	Arg Leu	Arg Ala	Leu His	Tyr Gly					
2225		2230		2235		2240					
Arg Glu Cys Ala	Asn Gly	Tyr Leu	Glu Leu	Leu Asp	His Val	Leu Leu					
	2245		2250		2255						
Thr Leu Gln Lys	Pro Ser	Pro Glu	Leu Lys	Gln Gln	Leu Thr	Gly His					
	2260		2265		2270						
Ser Lys Arg Val	Ala Gly	Ser Val	Thr Glu	Leu Ile	Gln Ala	Ala Glu					
	2275		2280		2285						
Ala Met Lys Gly	Thr Glu	Trp Val	Asp Pro	Glu Asp	Pro Thr	Val Ile					
	2290		2295		2300						
Ala Glu Asn Glu	Leu Leu	Gly Ala	Ala Ala	Ala Ile	Glu Ala	Ala Ala					
2305		2310		2315		2320					
Lys Lys Leu Glu	Gln Leu	Lys Pro	Arg Ala	Lys Pro	Lys Glu	Ala Asp					
	2325		2330		2335						
Glu Ser Leu Asn	Phe Glu	Glu Gln	Ile Leu	Glu Ala	Ala Lys	Ser Ile					
	2340		2345		2350						
Ala Ala Ala Thr	Ser Ala	Leu Val	Lys Ala	Ala Ser	Ala Ala	Gln Arg					
	2355		2360		2365						
Glu Leu Val Ala	Gln Gly	Lys Val	Gly Ala	Ile Pro	Ala Asn	Ala Leu					
	2370		2375		2380						
Asp Asp Gly Gln	Trp Ser	Gln Gly	Leu Ile	Ser Ala	Ala Arg	Met Val					
2385		2390		2395		2400					
Ala Ala Ala Thr	Asn Asn	Leu Cys	Glu Ala	Ala Asn	Ala Val	Gln					
	2405		2410		2415						
Gly His Ala Ser	Gln Glu	Lys Leu	Ile Ser	Ser Ala	Lys Gln	Val Ala					
	2420		2425		2430						
Ala Ser Thr Ala	Gln Leu	Leu Val	Ala Cys	Lys Val	Lys Ala	Asp Gln					
	2435		2440		2445						
Asp Ser Glu Ala	Met Lys	Arg Leu	Gln Ala	Ala Gly	Asn Ala	Val Lys					
	2450		2455		2460						
Arg Ala Ser Asp	Asn Leu	Val Lys	Ala Ala	Gln Lys	Ala Ala	Ala Phe					

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2465                2470                2475                2480
Glu Glu Gln Glu Asn Glu Thr Val Val Val Lys Glu Lys Met Val Gly
                2485                2490                2495
Gly Ile Ala Gln Ile Ile Ala Ala Gln Glu Glu Met Leu Arg Lys Glu
                2500                2505                2510
Arg Glu Leu Glu Glu Ala Arg Lys Lys Leu Ala Gln Ile Arg Gln Gln
                2515                2520                2525
Gln Tyr Lys Phe Leu Pro Ser Glu Leu Arg Asp Glu His
                2530                2535                2540

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<210> 1703
<211> 346
<212> DNA
<213> Homo sapiens

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<400> 1703
ggatcccgag gagaaaaatc ctctgttact tcatgggtca tgtgactgag aatcttttta
60
ggaatctgtg atggagaaga atgactcttc ttcttctctg agtcctgtag taatgcattc
120
ctgtctctac ctttctccat gactgctgcc tggctctgtcc tagccttgct ctgatccaca
180
ctgagctggc cttgagcagg gtgcacacctg tacatgaaga caatggctgg tttctcactg
240
gactctcctt tcgctctctg gaaccagtga tggcgctgaa ctggaggaag aggcagcatg
300
tgaatgactg tgccatccat ggccaccaag ttccctttct ctcgct
346

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<210> 1704
<211> 106
<212> PRT
<213> Homo sapiens

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<400> 1704
Met Asp Gly Thr Val Ile His Met Leu Pro Leu Pro Pro Val Gln Arg
1          5          10          15
His His Trp Phe Thr Glu Ala Lys Gly Glu Ser Ser Glu Lys Pro Ala
20          25          30
Ile Val Phe Met Tyr Arg Cys Asp Pro Ala Gln Gly Gln Leu Ser Val
35          40          45
Asp Gln Ser Lys Ala Arg Thr Asp Gln Ala Ala Val Met Glu Lys Gly
50          55          60
Arg Ala Glu Asn Ala Leu Leu Gln Asp Ser Glu Lys Lys Arg Ser His
65          70          75          80
Ser Ser Pro Ser Gln Ile Pro Lys Lys Ile Leu Ser His Met Thr His
85          90          95
Glu Val Thr Glu Asp Phe Ser Pro Arg Asp
100          105

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<210> 1705
<211> 377
<212> DNA
<213> Homo sapiens

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<400> 1705  
 gtgcaccttt tctcaggact cgctcagaag gtccttctgg gaggacaatg gacaagacta  
 60  
 aaccatcaaa tccattctca atgggtcaaa ttccaaatct tcttgaaggg ctggcttcta  
 120  
 ctgggtgctcc aatcgagttg cagaaaggta tacaggggtg agcaagttta tttaatcctg  
 180  
 gttttgctg gaacaaaat ccacaagttc aaaccttgaa gaattctcaa ggttctattc  
 240  
 ataatttagt gaggtctgga gttactgttg aaaggaaagt taatgtaggg gcacaaggag  
 300  
 cttttaactc tgccttgca ccacagatgg aatttccac agttctccca tacaaccctc  
 360  
 cttccttcgg agctagc  
 377

<210> 1706  
 <211> 110  
 <212> PRT  
 <213> Homo sapiens

<400> 1706  
 Met Asp Lys Thr Lys Pro Ser Asn Pro Phe Ser Met Gly Gln Ile Pro  
 1 5 10 15  
 Asn Phe Pro Glu Gly Leu Ala Ser Thr Gly Ala Pro Ile Glu Leu Gln  
 20 25 30  
 Lys Gly Ile Gln Gly Gly Ala Ser Leu Phe Asn Pro Gly Phe Gly Trp  
 35 40 45  
 Asn Gln Asn Pro Gln Val Gln Thr Leu Lys Asn Ser Gln Gly Ser Ile  
 50 55 60  
 His Asn Leu Val Arg Ser Gly Val Thr Val Glu Arg Lys Val Asn Val  
 65 70 75 80  
 Gly Ala Gln Gly Ala Phe Asn Ser Ala Pro Ala Pro Gln Met Glu Phe  
 85 90 95  
 Pro Thr Val Pro Pro Tyr Asn Pro Ser Ser Phe Gly Ala Ser  
 100 105 110

<210> 1707  
 <211> 427  
 <212> DNA  
 <213> Homo sapiens

<400> 1707  
 nnttcggtag accccaagcc cggacgcagc gccgataccc atgtgcgccc agtactacgc  
 60  
 catcacgccca agcagtgct catcatcggg gccgggctag ccggcatgga ggctgcgcga  
 120  
 gttctcagcg aacgcgcaca cgaacctctc atcgtcgagg ccagcgacca cattggcgga  
 180  
 gtcatecttg cgggtggtca accttccttc aaggaggacg acctagctct gctggagtg  
 240  
 taccgcacca ccctggagga gttgggcgtg gagattcgac tcaacaccac cgtaacggct  
 300

gattcttatcg cttccttcg ggccgatacac gtcgtcctgg cgaccggatc gaggcgcggt  
 360  
 cgactcgacc taggtgatga tgccaaggte attgacgcca ccgacgctct gctcaaccgc  
 420  
 gacgcgt  
 427

<210> 1708  
 <211> 142  
 <212> PRT  
 <213> Homo sapiens

<400> 1708  
 Xaa Ser Val Asn Pro Lys Pro Gly Arg Ser Ala Asp Thr His Val Arg  
 1 5 10 15  
 Pro Val Leu Arg His His Ala Lys Arg Val Leu Ile Ile Gly Ala Gly  
 20 25 30  
 Leu Ala Gly Met Glu Ala Ala Arg Val Leu Ser Glu Arg Ala His Glu  
 35 40 45  
 Pro Leu Ile Val Glu Ala Ser Asp His Ile Gly Gly Val Ile Leu Ala  
 50 55 60  
 Gly Gly Gln Pro Ser Phe Lys Glu Asp Asp Leu Ala Leu Leu Glu Trp  
 65 70 75 80  
 Tyr Arg Thr Thr Leu Glu Glu Leu Gly Val Glu Ile Arg Leu Asn Thr  
 85 90 95  
 Thr Val Thr Ala Asp Leu Ile Ala Ser Phe Gly Ala Asp His Val Val  
 100 105 110  
 Leu Ala Thr Gly Ser Arg Pro Arg Leu Asp Leu Gly Asp Asp Ala  
 115 120 125  
 Lys Val Ile Asp Ala Thr Asp Ala Leu Leu Asn Arg Asp Ala  
 130 135 140

<210> 1709  
 <211> 446  
 <212> DNA  
 <213> Homo sapiens

<400> 1709  
 acgcgtgaag gggaccagga ggttggaac agaccattgc aatggaaatg atgatttaga  
 60  
 ctgtttctttt ctgactgatg actgggagtc agggaagatg aatgcagagt ctgtgatcac  
 120  
 ctctctcttc agccacatca tatctcagcc tcctggagga aactcccata gcttgtctct  
 180  
 tcagteccag ttgacagctt ctgaacgttt ccaagagaat agttcggatc attcagaaac  
 240  
 cagggttggtg caagaggtct tctttcaggc aatctgctt gctgtgtgct taatcatttc  
 300  
 tgcattgtga agatgggtta tgggagaaa attagccagt gtcttcacat gctcattgat  
 360  
 gataaactgta gcttatgtga aatcattggt tctcagcctt gccagctatt tcaaaaccac  
 420  
 tgctgtgct cggttgttca aaattt  
 446

<210> 1710  
 <211> 116  
 <212> PRT  
 <213> Homo sapiens

<400> 1710  
 Met Asn Ala Glu Ser Val Ile Thr Ser Ser Ser Ser His Ile Ile Ser  
 1 5 10 15  
 Gln Pro Pro Gly Gly Asn Ser His Ser Leu Ser Leu Gln Ser Gln Leu  
 20 25 30  
 Thr Ala Ser Glu Arg Phe Gln Glu Asn Ser Ser Asp His Ser Glu Thr  
 35 40 45  
 Arg Leu Leu Gln Glu Val Phe Phe Gln Ala Ile Leu Leu Ala Val Cys  
 50 55 60  
 Leu Ile Ile Ser Ala Cys Ala Arg Trp Val Met Gly Glu Ile Leu Ala  
 65 70 75 80  
 Ser Val Phe Thr Cys Ser Leu Met Ile Thr Val Ala Tyr Val Lys Ser  
 85 90 95  
 Leu Phe Leu Ser Leu Ala Ser Tyr Phe Lys Thr Thr Ala Cys Ala Arg  
 100 105 110  
 Phe Val Lys Ile  
 115

<210> 1711  
 <211> 426  
 <212> DNA  
 <213> Homo sapiens

<400> 1711  
 nggggggattc atgttagtat ttgtcagaaa aggccttttga aagagccaaa ttaaaaagag  
 60  
 cactagaaca tgaacaggga aagcagagga aatacttgta gaaagtattt ttacagctc  
 120  
 cctcaatata attcagtaat gtctattcct ggtgagaagt ctgtccgcac acacagcatc  
 180  
 agccaagcag cagaagcagt ggtgtctggg gggctgggaa gtttttcccc caaataccca  
 240  
 ccccatgcac tgcccagtc ccagacccca aagactttgt cctcgctcga cgcacctttt  
 300  
 gcaggctcac actgtctgtg tgcgcaagag gtacgcacag gagacaatgg ggaaagagct  
 360  
 gaaggaggca aacaaggcca gggggaaagc ctacctcgag gcacagaggg gccccaagat  
 420  
 ggatat  
 426

<210> 1712  
 <211> 119  
 <212> PRT  
 <213> Homo sapiens

<400> 1712  
 Met Asn Arg Glu Ser Arg Gly Asn Thr Cys Arg Lys Tyr Phe Leu Gln

```

1           5           10           15
Leu Pro Gln Tyr Asn Ser Val Met Phe Ile Pro Gly Glu Lys Ser Val
20           25           30
Arg Thr His Ser Ile Ser Gln Ala Ala Glu Ala Val Val Ser Gly Gly
35           40           45
Leu Gly Ser Phe Ser Pro Lys Tyr Pro Pro His Ala Leu Pro Ser Pro
50           55           60
Gln Thr Pro Lys Thr Leu Ser Ser Pro His Ala Pro Phe Ala Gly Ser
65           70           75           80
His Cys Leu Cys Ala Gln Glu Val Ala Thr Gly Asp Asn Gly Glu Arg
85           90           95
Ala Glu Gly Gly Lys Gln Gly Gln Gly Glu Ser Leu Pro Arg Gly Thr
100          105          110
Glu Gly Pro Gln Asp Gly Tyr
115

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<210> 1713  
 <211> 328  
 <212> DNA  
 <213> Homo sapiens

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<400> 1713
tctagaaagg tttatttcat gggccaaggc ttgtgtttcc aaagccagga agggctgaag
60
ccagaattgg ccctggctgc ttgccacaga gtctggccgg gggaccctgg acctcagcag
120
ggctcatgatg aggtcagctt tggaggagca gggccagcgt gtctgcttt ctgctcctgg
180
aatgagcctc actccctccc tgctcaaggc agcccttcac ccagccgccg ggacaggtgc
240
cctgtgccac ctgccatccc tgggattctc catctcagtg agtgctccct ggggccttggg
300
aacgcacatcg gctggtgact cctgggggg
328

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<210> 1714  
 <211> 99  
 <212> PRT  
 <213> Homo sapiens

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<400> 1714
Met Gly Gln Gly Leu Cys Phe Gln Ser Gln Glu Gly Leu Lys Pro Glu
1           5           10           15
Leu Ala Leu Ala Ala Cys His Arg Val Trp Pro Gly Asp Pro Gly Pro
20           25           30
Gln Gln Gly His Asp Glu Val Ser Phe Gly Gly Ala Gly Pro Ala Cys
35           40           45
Pro Ala Phe Cys Ser Trp Asn Glu Pro His Ser Leu Pro Ala Gln Gly
50           55           60
Ser Pro Ser Pro Ser Arg Arg Asp Arg Cys Pro Val Pro Pro Ala Ile
65           70           75           80
Pro Gly Ile Leu His Leu Ser Glu Cys Ser Leu Gly Pro Gly Ser Ala Ala
85           90           95
Ser Gly Trp

```

<210> 1715  
 <211> 489  
 <212> DNA  
 <213> Homo sapiens

<400> 1715  
 gttgccacg atgggcccga tttgtacatc cgggtatttc gtgttcggtg tgggtgtaaaa  
 60  
 gatgccccat gtgtgacatt ctgtggatag ttattgttag cattatttga caagtcttag  
 120  
 aaatcgatcc acccaggcgt gtagctgcgg tatttcatca gagttgatcg ttgcgatgag  
 180  
 ttgatcatgg cctgtcatgg cgtagtcttc tacgtcgtaa agtatgagac aatccacggg  
 240  
 aatatggtgt tttttggcca actcggaagc cggggtgtcg ggggaagtcgg tcctctgaag  
 300  
 gtatgggcct gtccaatga cgacgtgtgc tgggtccatg aggagttcgt ccaaggttcg  
 360  
 aactcattac cgtcgaatac gacgtgtcg ccacgcggcg tgcgaatcg aatcctcaaa  
 420  
 gtgtatccgt actcgggtgc gcgcaacagg tgcctaacct cagcgctagt gggctgtgca  
 480  
 ctgacgct  
 489

<210> 1716  
 <211> 101  
 <212> PRT  
 <213> Homo sapiens

<400> 1716  
 Met Ala Cys His Gly Val Val Phe Tyr Val Val Lys Tyr Glu Thr Ile  
 1 5 10 15  
 His Gly Asn Met Val Phe Phe Gly Gln Leu Gly Ser Arg Gly Val Gly  
 20 25 30  
 Glu Val Gly Pro Cys Lys Val Trp Ala Cys Pro Asn Asp Asp Val Cys  
 35 40 45  
 Trp Val His Glu Glu Phe Val Gln Gly Ser Asn Ser Leu Pro Ser Asn  
 50 55 60  
 Thr Thr Leu Ser Pro Ser Ala Val Ser Asn Arg Ile Leu Lys Val Tyr  
 65 70 75 80  
 Pro Tyr Ser Val Ser Arg Asn Arg Cys Leu Thr Ser Ala Leu Val Gly  
 85 90 95  
 Cys Ala Leu Thr Arg  
 100

<210> 1717  
 <211> 312  
 <212> DNA  
 <213> Homo sapiens

<400> 1717

nggcatacaa cggagtaaaa accacatcaa cagaagtgga aacaggccca gagagcgtga  
 60  
 gaggtttctg gtttcaagaa ggcacactga gtcctctgcac ccgatgcctc tccttcccca  
 120  
 aatcccactg gaatacacag agagacataa aaacaaggag tgtcctgtag cagagcagcc  
 180  
 aggctggctc atgagacaga gggagcagtc ttctgggaga catggctctt gctgctgagg  
 240  
 atcagccaac agatccatgg aaagcaaagg gcccttctcc ggaggcttcc tggggcctgc  
 300  
 catgaatgtg tc  
 312

<210> 1718

<211> 101

<212> PRT

<213> Homo sapiens

<400> 1718

Met	Ala	Gly	Pro	Arg	Lys	Pro	Pro	Glu	Lys	Gly	Pro	Leu	Leu	Ser	Met
1			5					10					15		
Asp	Leu	Leu	Ala	Asp	Pro	Gln	Gln	Gln	Glu	Pro	Cys	Leu	Pro	Glu	Asp
			20				25					30			
Cys	Ser	Leu	Cys	Leu	Met	Ser	Gln	Pro	Gly	Cys	Ser	Ala	Thr	Gly	His
		35				40					45				
Ser	Leu	Phe	Leu	Cys	Leu	Ser	Val	Tyr	Ser	Ser	Gly	Ile	Trp	Gly	Arg
		50			55					60					
Arg	Gly	Ile	Gly	Cys	Arg	Asp	Ser	Val	Cys	Leu	Leu	Glu	Thr	Arg	Asn
65					70				75					80	
Leu	Ser	Arg	Ser	Leu	Gly	Leu	Phe	Pro	Leu	Leu	Leu	Met	Trp	Phe	Leu
			85					90					95		
Leu	Arg	Cys	Met	Pro											
			100												

<210> 1719

<211> 404

<212> DNA

<213> Homo sapiens

<400> 1719

tgcaccacac ggcctgcca tttttgtctg ggaccgcaga ccgatgctg ccctcgaag  
 60  
 tcagagacaa tccaaccggc ctgcaaaact gcggtcttgc ccggggcaac gtcgtagggt  
 120  
 ccaacagttt ctccaacctc ataggttagaa gaagtgcctat agctgctgga aatggagatg  
 180  
 tggatcacat cgagcagtgga gaagtcaatg cctgccgaaa ccgaccagtt ctcgtcttta  
 240  
 gttctctgtg tggatcgctg gaccggctgc ggagtgtctg tgagtgggaa atcgctcacgt  
 300  
 cccagcagag ccatacgaagt agctgcgcac cacatgaacg ggctgtccgt gtcacccgga  
 360  
 ttcgagcagg gagcacccat tggtgngtgg tgtccccggg gggt  
 404

<210> 1720  
 <211> 126  
 <212> PRT  
 <213> Homo sapiens

<400> 1720  
 Met Gly Ala Pro Cys Ser Asn Pro Gly Asp Thr Asp Ser Pro Phe Met  
 1 5 10 15  
 Trp Cys Ala Ala Thr Ser Met Ala Leu Leu Gly Arg Asp Asp Phe Gln  
 20 25 30  
 Leu Asn Asp Thr Pro Gln Pro Val Thr Arg Ser Ile Thr Glu Thr Lys  
 35 40 45  
 Thr Lys Asn Trp Ser Val Ser Ala Gly Ile Asp Phe Pro Leu Leu Asp  
 50 55 60  
 Val Ile His Ile Ser Ile Ser Ser Tyr Ser Thr Ser Ser Thr Tyr  
 65 70 75 80  
 Glu Val Gly Glu Thr Val Gly Pro Tyr Asp Val Ala Pro Gly Lys Thr  
 85 90 95  
 Ala Val Leu Gln Ala Gly Trp Ile Val Ser Asp Phe Glu Gly Gln His  
 100 105 110  
 Thr Val Cys Gly Pro Asp Lys Lys Trp Gln Gly Arg Gly Asp  
 115 120 125

<210> 1721  
 <211> 529  
 <212> DNA  
 <213> Homo sapiens

<400> 1721  
 ccatggccac cctttcagga cagagctgcc ctccccatgc tggaggagcc acagggcctg  
 60  
 gtcgctgtgg cttcagcctc ccagctcctc ctgtcctctg ctgggcactt gtaatgtcca  
 120  
 ggcaactcct gcttggatca ggggatctgg gtttcattct cccagctcct cctgtcctct  
 180  
 gctgggcacc tgtgatgtcc aggcactccc tgcttgatt gggggatctg ggtttcatct  
 240  
 tcccagctcc tctgtcctc cgtctggcac ctgtgatgtc caggcactcc ctgcttggat  
 300  
 cgggggggtct ggggtttgtg ctatacttgg tgctcccttt cactcaggcc ccttcttgac  
 360  
 tctgcagagc taccctctgc catctctttc acgcgggcct cctgcagtct ctgtgtctcc  
 420  
 cctgtgactc tgcttccggt gttgtcaaat ggggtgcatc ccaggaccgc caccactggg  
 480  
 tctgtgtcag gttttctggg tggcagagtg cggatgagtg ggcacgcgt  
 529

<210> 1722  
 <211> 118  
 <212> PRT  
 <213> Homo sapiens

&lt;400&gt; 1722

```

Met Ala Thr Leu Ser Gly Gln Ser Cys Pro Ser His Ala Gly Gly Ala
 1           5           10           15
Thr Gly Pro Gly Arg Cys Gly Phe Ser Leu Pro Ala Pro Pro Val Leu
           20           25           30
Cys Trp Ala Leu Val Met Ser Arg His Ser Leu Leu Gly Ser Gly Asp
           35           40           45
Leu Gly Phe Ile Phe Pro Ala Pro Pro Val Leu Cys Trp Ala Pro Val
           50           55           60
Met Ser Arg His Ser Leu Leu Gly Leu Gly Asp Leu Gly Phe Ile Phe
65           70           75           80
Pro Ala Pro Pro Val Leu Arg Trp Ala Pro Val Met Ser Arg His Ser
           85           90           95
Leu Leu Gly Ser Gly Gly Leu Gly Phe Val Leu Tyr Leu Val Leu Pro
           100           105           110
Phe Thr Gln Ala Pro Ser
           115

```

&lt;210&gt; 1723

&lt;211&gt; 371

&lt;212&gt; DNA

&lt;213&gt; Homo sapiens

&lt;400&gt; 1723

```

acgcgtttga agctggatgc atggatatcc agcgccgccca tcgggtcaaa tggggtgacg
60
ctgcctctga tggtcaccgg ggcgtagcga tctaccttac cgttgatgtc gacgctcgcc
120
ggtttggcct ggccgctgtc aatggtgcca atcttcccg ttagttgttg aatggcagtg
180
gcaaagttgg gcgtgaggct gaagtcggcg aagttggccg agccatcatt gatcgcaacc
240
tgcccaatgt gaatgcccag tggcttctct ttgctggccg ccggtgtctc tgttgccagt
300
gtcggccggg tgcgggatca gcaagtcacg gatgttggtg gggcggtcat cggtgatcgc
360
tgcattcaat a
371

```

&lt;210&gt; 1724

&lt;211&gt; 111

&lt;212&gt; PRT

&lt;213&gt; Homo sapiens

&lt;400&gt; 1724

```

Met Asp Ile Gln Arg Arg His Arg Val Lys Trp Val Asp Ala Ala Leu
 1           5           10           15
Asp Gly His Arg Gly Val Ala Ile Tyr Leu Thr Val Asp Val Asp Ala
           20           25           30
Arg Arg Phe Gly Leu Ala Ala Val Asn Gly Ala Asn Leu Pro Val Glu
           35           40           45
Leu Leu Asn Gly Ser Gly Lys Val Gly Arg Glu Ala Glu Val Gly Glu
           50           55           60
Val Gly Arg Ala Ile Ile Asp Arg Asn Leu Pro Asn Val Asn Ala Gln

```

```

65              70              75              80
Trp Leu Leu Phe Ala Gly Arg Arg Leu Ser Cys Cys Gln Cys Arg Pro
      85              90              95
Gly Ala Gly Ser Ala Ser His Arg Cys Trp Trp Gly Gly His Arg
      100              105              110

```

&lt;210&gt; 1725

&lt;211&gt; 807

&lt;212&gt; DNA

&lt;213&gt; Homo sapiens

&lt;400&gt; 1725

```

ngtgcacctg gtatgggtgcc ctctgggtct aagcctgtcc ttgtacacac tcacactttg
60
atttgaagtg acctcttccc tctgagcctt ctgggtgtcca actctcccct tctctaggag
120
catgcagctgc tggaggccga gaggcagaag atgtcagccc ttgtgcgagg gctgcagagg
180
gagctggagg agacttcaga ggagacaggg cattggcaga gtatgttcca gaagaacaa
240
gaggatctta gagccaccaa gcaggaactc ctgcagctgc gaatggagaa ggaggagatg
300
gaagaggagc ttggagagaa gatagaggtc ttgcagaggg aattagagca ggcccagagc
360
agtgtctggg ataactcgcca ggttgagggt ctcaagaagg agctgtctccg gacacaggag
420
gagcttaagg aactgcaggc agaacggcag agccaggagg tggctggggc acaccgggac
480
cgggagttgg agaagcagct gccggctcctg agggctcagg ctgatacagg tccgggagctg
540
gaagaacaga acctccagct acaaaagacc ctccagcaat tgcgacagga ctgtgaagag
600
gcttccaagg ctaagatggg ggcccaggca gaggcaacag tgctggggca gcggcggggc
660
gcagtggaga cgacgcttcg ggagacccag gagaaaaatg acgaattccg ccggcgcctc
720
ctgggttttg agcagcagct gaaggagact cgagggtctg tggatggttg ggaagcggtg
780
gaggcacgac tacgggacaa gctgcag
807

```

&lt;210&gt; 1726

&lt;211&gt; 230

&lt;212&gt; PRT

&lt;213&gt; Homo sapiens

&lt;400&gt; 1726

```

Asp His Ala Val Leu Glu Ala Glu Arg Gln Lys Met Ser Ala Leu Val
1          5          10          15
Arg Gly Leu Gln Arg Glu Leu Glu Glu Thr Ser Glu Glu Thr Gly His
      20          25          30
Trp Gln Ser Met Phe Gln Lys Asn Lys Glu Asp Leu Arg Ala Thr Lys
      35          40          45
Gln Glu Leu Leu Gln Leu Arg Met Glu Lys Glu Glu Met Glu Glu Glu

```

```

      50              55              60
Leu Gly Glu Lys Ile Glu Val Leu Gln Arg Glu Leu Glu Gln Ala Arg
65              70              75              80
Ala Ser Ala Gly Asp Thr Arg Gln Val Glu Val Leu Lys Lys Glu Leu
      85              90              95
Leu Arg Thr Gln Glu Glu Leu Lys Glu Leu Gln Ala Glu Arg Gln Ser
      100              105              110
Gln Glu Val Ala Gly Arg His Arg Asp Arg Glu Leu Glu Lys Gln Leu
      115              120              125
Ala Val Leu Arg Val Glu Ala Asp Arg Gly Arg Glu Leu Glu Glu Gln
      130              135              140
Asn Leu Gln Leu Gln Lys Thr Leu Gln Gln Leu Arg Gln Asp Cys Glu
145              150              155              160
Glu Ala Ser Lys Ala Lys Met Val Ala Glu Ala Glu Ala Thr Val Leu
      165              170              175
Gly Gln Arg Arg Ala Ala Val Glu Thr Thr Leu Arg Glu Thr Gln Glu
      180              185              190
Glu Asn Asp Glu Phe Arg Arg Arg Ile Leu Gly Leu Glu Gln Gln Leu
      195              200              205
Lys Glu Thr Arg Gly Leu Val Asp Gly Gly Glu Ala Val Glu Ala Arg
      210              215              220
Leu Arg Asp Lys Leu Gln
225              230

```

&lt;210&gt; 1727

&lt;211&gt; 474

&lt;212&gt; DNA

&lt;213&gt; Homo sapiens

&lt;400&gt; 1727

```

aaccgaactct ccacaacatc gccagaaaca gtcgctgccca agaggctcca ccatgtttta
60
gcagcttcag aagacaaaga taagatgaaa aaggaagttt tacaaagctc aagggaacatt
120
atgcaatcca aatcagcttg cgaaattaaa caaagtcacc aagaatgtag tacccaacaa
180
acacaacaga agaagtattt ggagcagttg cacttgcccc aaagcaaacc aatttcccca
240
aatttcaaag ttaaaaccat caaacttcca actctagatc atacattaaa tgaaacagac
300
cacagctatg aaagtcataa acagcaatct gagattgatg ttcaaacctt taccaaaaaa
360
caatatctga aaaccaagaa aactgaagca agcactgaat gtatgcataa gcaatctctg
420
gctgaaagac attatcagtt acctaagaag gagaaaaagag tgacagtaca attg
474

```

&lt;210&gt; 1728

&lt;211&gt; 130

&lt;212&gt; PRT

&lt;213&gt; Homo sapiens

&lt;400&gt; 1728

```

Met Lys Lys Glu Val Leu Gln Ser Ser Arg Asp Ile Met Gln Ser Lys

```

```

      1           5           10           15
Ser Ala Cys Glu Ile Lys Gln Ser His Gln Glu Cys Ser Thr Gln Gln
      20           25           30
Thr Gln Gln Lys Lys Tyr Leu Glu Gln Leu His Leu Pro Gln Ser Lys
      35           40           45
Pro Ile Ser Pro Asn Phe Lys Val Lys Thr Ile Lys Leu Pro Thr Leu
      50           55           60
Asp His Thr Leu Asn Glu Thr Asp His Ser Tyr Glu Ser His Lys Gln
      65           70           75           80
Gln Ser Glu Ile Asp Val Gln Thr Phe Thr Lys Lys Gln Tyr Leu Lys
      85           90           95
Thr Lys Lys Thr Glu Ala Ser Thr Glu Cys Ser His Lys Gln Ser Leu
      100          105          110
Ala Glu Arg His Tyr Gln Leu Pro Lys Lys Glu Lys Arg Val Thr Val
      115          120          125
Gln Leu
      130

```

&lt;210&gt; 1729

&lt;211&gt; 470

&lt;212&gt; DNA

&lt;213&gt; Homo sapiens

&lt;400&gt; 1729

```

acgcgtgact cgccataaca ttgctgacac gttttccacg gcaagggagg catcatgacg
60
aggatcgacg tgtggctgtg gtcggtgcgc gtctataagt cccggctcgt ggctaccggc
120
gcggtcaagg gcggccacat tcgcctcaat ggagaccgag ttaaaccttc ccacgacgtg
180
aaaccggcgg ataccgtcac catccacacc cccggatggg accgggtcct caaggtcatc
240
aacccgatca cgaaaagagt cggcgccaaa ctgcggtcgc aggcttacga agatctgtca
300
nngccccccc acccgcttac ctctctgncg cccctcgccc gcgcgacgcg tggggctgga
360
cgaccaccca agaaggatcg tcgcgagatc gatcgggtcc gaggccggga ctctcgctat
420
tgaggactct tcgcccggcc caacacacca cggctcgcgg ccgaattggc
470

```

&lt;210&gt; 1730

&lt;211&gt; 131

&lt;212&gt; PRT

&lt;213&gt; Homo sapiens

&lt;400&gt; 1730

```

His Val Phe His Gly Lys Gly Gly Ile Met Thr Arg Ile Asp Val Trp
      1           5           10           15
Leu Trp Ser Val Arg Val Tyr Lys Ser Arg Ser Leu Ala Thr Ala Ala
      20           25           30
Val Lys Gly Gly His Ile Arg Leu Asn Gly Asp Pro Val Lys Pro Ser
      35           40           45
His Asp Val Lys Pro Gly Asp Thr Val Thr Ile His Thr Pro Gly Trp

```

```

      50              55              60
Asp Arg Val Leu Lys Val Ile Asn Pro Ile Thr Lys Arg Val Gly Ala
65              70              75              80
Lys Leu Ala Val Glu Ala Tyr Glu Asp Leu Ser Xaa Pro Pro Asp Pro
      85              90              95
Pro Thr Ser Leu Xaa Pro Leu Ala Arg Arg Asp Arg Gly Ala Gly Arg
      100              105              110
Pro Thr Lys Lys Asp Arg Arg Glu Ile Asp Arg Leu Arg Gly Arg Asp
      115              120              125
Ser Arg Tyr
130

<210> 1731
<211> 534
<212> DNA
<213> Homo sapiens

<400> 1731
agcgctccct gcctgctgct gggcggaggg aaggcgggcaa gagctgcgga gccccctggaa
60
gagcttcag gaacctgcg ctgtgggata aaggaatgag gttcagaaag gggcagggag
120
ttgcccgcag ccgcaccgca cgtcttcagc ccgacogttg tcttgacctc tctgtccogt
180
ccctgcacca gtctaccat ggccttctgg acacagctga tgctgctgct ctggaagaat
240
ttcatgtatc gccggagaca gccggtccag ctctgtgtcg aattgctgtg gcctctcttc
300
ctcttcttca tcctggtggc tgttcgccac tcccaccgcg ccctggagca ccatgaatgc
360
cacttcccaa acaagccact gccatcgcgg ggcaccgtgc cctggctcca ggggtctcgc
420
tgtaattgta acaacacctg ctttcgcgag ctgacaccgg gcgaggagcc cgggcgcctg
480
agcaacttca acgactccct ggtctccggg ctgctacgtc ggagagaggc tgga
534

<210> 1732
<211> 112
<212> PRT
<213> Homo sapiens

<400> 1732
Met Ala Phe Trp Thr Gln Leu Met Leu Leu Trp Lys Asn Phe Met
1              5              10              15
Tyr Arg Arg Arg Gln Pro Val Gln Leu Leu Val Glu Leu Leu Trp Pro
      20              25              30
Leu Phe Leu Phe Phe Ile Leu Val Ala Val Arg His Ser His Pro Pro
      35              40              45
Leu Glu His His Glu Cys His Phe Pro Asn Lys Pro Leu Pro Ser Ala
      50              55              60
Gly Thr Val Pro Trp Leu Gln Gly Leu Ile Cys Asn Val Asn Asn Thr
65              70              75              80
Cys Phe Pro Gln Leu Thr Pro Gly Glu Glu Pro Gly Arg Leu Ser Asn

```

	85		90		95
Phe Asn Asp	Ser Leu Val	Ser Arg	Leu Leu Arg	Arg Arg	Glu Ala Gly
	100		105		110

&lt;210&gt; 1733

&lt;211&gt; 409

&lt;212&gt; DNA

&lt;213&gt; Homo sapiens

&lt;400&gt; 1733

```

acgcgatgatg gccgatccga ctgtgccccg tcacgacccg cggcgatccga gtcctgacc
60
ggacatgccg tggctgatcc gcgacatcac cctcggaac aacgtgatcg cgggcagcac
120
gggcaactgc accctctgcg tcgaggacta ctccgcgagg tacgcggcga ggatcctcaa
180
catcgtctcc gacggcaacg tcttcgagcg cgcacggccc gcacagccag cgtggctggg
240
tggtgtggtc gcggggatca gcgaactccg atccgtacgt attctccagc ctgcagcgtt
300
accggggcgc cactgggtttt taggaccttc gctcgggttc gatcgatggc gtgctgtcac
360
cgccggccgga gcgctgctcc cgggcattga tctcaaggcg gtcacgagg
409

```

&lt;210&gt; 1734

&lt;211&gt; 134

&lt;212&gt; PRT

&lt;213&gt; Homo sapiens

&lt;400&gt; 1734

```

Met Ala Asp Pro Thr Val Pro Gly His Asp Pro Arg Arg Pro Ser Pro
1      5      10      15
Asp Pro Asp Met Pro Trp Leu Ile Arg Asp Ile Thr Leu Gly Asn Asn
20     25     30
Val Ile Ala Gly Ser Thr Gly Asn Cys Thr Leu Cys Val Glu Asp Tyr
35     40     45
Ser Arg Arg Tyr Ala Ala Arg Ile Leu Asn Ile Val Ser Asp Gly Asn
50     55     60
Val Leu Gln Arg Ala Ser Ala Ala Gln Pro Ala Trp Leu Val Gly Val
65     70     75     80
Val Ala Gly Ile Ser Glu Leu Arg Ser Val Arg Ile Leu Gln Pro Arg
85     90     95
Arg Leu Pro Gly Asp His Trp Phe Leu Gly Pro Ser Leu Gly Leu Asp
100    105    110
Arg Trp Arg Ala Val Thr Ala Ala Gly Ala Leu Leu Pro Gly Ile Asp
115    120    125
Leu Lys Ala Val Thr Arg
130

```

&lt;210&gt; 1735

&lt;211&gt; 342

&lt;212&gt; DNA

&lt;213&gt; Homo sapiens

<400> 1735  
 ggcccatgg tcatcagcat catgtgttcg gcgcccgcg cagcaatgtt cgtgcgatca  
 60  
 agcgcgcctt ttagttcgac gcacggtaaa gcccgctgcg atcgatgtag gccaggaccg  
 120  
 cgtcaggcac caggaacgt accgacttcc cgctggccgg cagttgacgg atctgggtgg  
 180  
 cggacaccgc aagcggggtc tgccagacga atgcaatatt cccgttcggc ccggtcaggg  
 240  
 ccaaggggtc acttaccgac cgcgcggcca gcaggttgcg caaggcatcc ggcgggttcg  
 300  
 tggcggcatc cgggcgttgc aaaaccagga tgtggcaatg ct  
 342

<210> 1736  
 <211> 112  
 <212> PRT  
 <213> Homo sapiens

<400> 1736  
 Met Val Ile Ser Ile Met Cys Ser Ala Pro Ala Ala Arg Met Phe Val  
 1 5 10 15  
 Arg Ser Ser Ala Pro Phe Ser Ser Thr His Gly Lys Ala Arg Ala His  
 20 25 30  
 Arg Cys Arg Pro Gly Pro Arg Gln Ala Pro Gly Asn Val Pro Thr Ser  
 35 40 45  
 Arg Trp Pro Ala Val Asp Gly Ser Gly Trp Arg Thr Pro Gln Ala Gly  
 50 55 60  
 Ser Ala Arg Arg Met Gln Tyr Ser Arg Ser Ala Arg Ser Gly Pro Arg  
 65 70 75 80  
 Gly His Leu Pro Thr Ala Arg Pro Ala Gly Cys Ala Arg His Pro Ala  
 85 90 95  
 Val Arg Trp Arg His Pro Gly Val Ala Lys Pro Gly Cys Gly Asn Ala  
 100 105 110

<210> 1737  
 <211> 506  
 <212> DNA  
 <213> Homo sapiens

<400> 1737  
 acgcgtgttc accatgacct ggaccgcccc gcggcccgac gggtcgagcg cggaggagtc  
 60  
 ggacgagacg actgtgttg tccctgccat ctcagcgccc caccgggtacg acgtgcaggc  
 120  
 gtccggcgcc cagctcact cccaccacgg cgaccgggtg gcgcggttgc acctcaacca  
 180  
 aggcagatacc acggcgaagg tcacgatcac cctgcgctaa cccctcaagc gtcttcagca  
 240  
 ccgacctata agtctcccg acacttttac gaccggccct ccccttggg gtgggccccg  
 300  
 tccttttctg gtctgggat gcacctggca gcaccacctc cggcccccat ggagaacagt  
 360

aggtatcctc gcagggtact acggccaagg catatttgac gttccaagct tgccactgcc  
 420  
 gtcttagggc catactgccg ccacgcagct gagacggtga ccaatcgggt aaggtgactg  
 480  
 gttgccgtag tccatgcgag gccggc  
 506

<210> 1738  
 <211> 113  
 <212> PRT  
 <213> Homo sapiens

<400> 1738  
 Met Ala Leu Arg Arg Gln Trp Gln Ala Trp Asn Val Lys Tyr Ala Leu  
 1 5 10 15  
 Ala Val Val Pro Cys Glu Asp Thr Tyr Cys Ser Pro Trp Gly Pro Glu  
 20 25 30  
 Val Val Leu Pro Gly Ala Ser His Asp Thr Lys Arg Thr Gly Pro Thr  
 35 40 45  
 Pro Arg Gly Arg Ala Gly Arg Lys Ser Val Trp Glu Thr Tyr Arg Ser  
 50 55 60  
 Val Leu Lys Thr Leu Glu Gly Leu Ala Gln Gly Asp Arg Asp Leu Arg  
 65 70 75 80  
 Arg Gly Thr Ala Leu Val Glu Val Gln Pro Arg His Pro Val Ala Trp  
 85 90 95  
 Val Gly Gly Asp Val Gly Ala Gly Arg Leu His Val Val Pro Val Gly  
 100 105 110  
 Arg

<210> 1739  
 <211> 420  
 <212> DNA  
 <213> Homo sapiens

<400> 1739  
 cgcgttattg aaaatgctgc tttttttact aaattaggac agcgtttaat cggcgcat  
 60  
 catcaagtga cggttgatgg atttgtttac cgtgttgata tgcggttaac cccttttgga  
 120  
 gagtctgggc cattgggttag cagctttaat tcaatagagg actattatca aaccatcggt  
 180  
 cgagagtggg agtggtatgc catggtttaa gcccggtgta ttggtgttga ggacgagtat  
 240  
 aaacaagcgt tagaaaggat gtttaagccct ttcgtattta gacgtttacat tgatttttagc  
 300  
 gctattgatt ctttgcgaaa aatgaaaacg atgatcagtg ctgaagttcg tcgcaagggg  
 360  
 ttaaaagaca atattaagtt gggaatggga gggatccgtg aaattgaatt tgtggctcaa  
 420

<210> 1740  
 <211> 140  
 <212> PRT

&lt;213&gt; Homo sapiens

&lt;400&gt; 1740

```

Arg Val Ile Glu Asn Ala Ala Phe Phe Thr Lys Leu Gly Gln Arg Leu
 1             5             10             15
Ile Gly Ala Leu His Gln Val Thr Val Asp Gly Phe Val Tyr Arg Val
          20             25             30
Asp Met Arg Leu Arg Pro Phe Gly Glu Ser Gly Pro Leu Val Ser Thr
      35             40             45
Phe Asn Ser Ile Glu Asp Tyr Tyr Gln Thr His Gly Arg Glu Trp Glu
 50             55             60
Cys Tyr Ala Met Val Lys Ala Arg Val Ile Gly Val Glu Asp Glu Tyr
 65             70             75             80
Lys Gln Ala Leu Glu Arg Met Leu Arg Pro Phe Val Phe Arg Arg Tyr
          85             90             95
Ile Asp Phe Ser Ala Ile Asp Ser Leu Arg Lys Met Lys Thr Met Ile
      100             105             110
Ser Ala Glu Val Arg Arg Lys Gly Leu Lys Asp Asn Ile Lys Leu Gly
    115             120             125
Met Gly Gly Ile Arg Glu Ile Glu Phe Val Ala Gln
    130             135             140

```

&lt;210&gt; 1741

&lt;211&gt; 378

&lt;212&gt; DNA

&lt;213&gt; Homo sapiens

&lt;400&gt; 1741

```

nnacgcgtcg aggtgattca ggccgacgcc actgaccgcg tggctcctca cagtctcaat
 60
gggcaggtcg acgtcgtcgt ctccaacccg cctacgtgc cagccggcgc cgtggaggac
 120
accgagacgg ccagcacga gccacgggtg gcgctctatg gcggggggccc ggacgggtga
 180
gagattccga ttgacgtcct gngtgcgtc agtcgcgctg ctgccaccgg cggagtgcctc
 240
gtcatggagc acgaccacga gcagggggcg ctgctgccgg cggccgcttc gtgagccggg
 300
ttcaagcagg ccgagaccgg tcaggacctc accggccgcg accgetacct gcgcgcgggtg
 360
cgtaaacccc gctggttag
 378

```

&lt;210&gt; 1742

&lt;211&gt; 59

&lt;212&gt; PRT

&lt;213&gt; Homo sapiens

&lt;400&gt; 1742

```

Xaa Arg Val Glu Val Ile Gln Ala Asp Ala Thr Asp Pro Leu Val Leu
 1             5             10             15
His Ser Leu Asn Gly Gln Val Asp Val Val Val Ser Asn Pro Pro Tyr
          20             25             30
Val Pro Ala Gly Ala Val Glu Asp Thr Glu Thr Ala Gln His Glu Pro

```

	35	40	45
Thr Val Ala Leu Tyr Gly Gly Pro Asp Gly	Val 50	Gly 55	Gly
<210>	1743		
<211>	4121		
<212>	DNA		
<213>	Homo sapiens		
<400>	1743		
atcacgtaca actgcaagga ggagtccag atccatgatg agctgcctaa ggcctattac			
60 acgttgggcc ggctcctcg caaaccccc gagcactacc tggtgcaaag ccgctacttc			
120 ctgggtcgagg atgtcactga gaagatggat gtgctgggca cegtgggaag ctgtggggcc			
180 cccaactccc gccagggtga gggtagggctc actgtgtttcg gcataggaga gccacgctcc			
240 tcaggggtta gccgggtcct ccagaaaactc cagaaggagc gacatagggg gtgtgtcatc			
300 ttctgttgtc gggagggaacc tgtgcttttc ctgcgtgcag atgaggacct ttgtgtcctac			
360 acacctcgag acaagcagaa ccttcctgag aaacctcagg gccttgagacc cggggtccgg			
420 gtggagagccc tgagctggc catccggaaa gatgccacg accttgccca gctgagcgag			
480 aacacatacc atgtgtacca taacaccgag gacctgtggg gggagcccca tgctgtggcc			
540 atccatgggt aggacgacct gcatagtgacg gaggaggtgt acaagcggcc cctcttctgt			
600 cagcccccact acaggtagca ccgcctgccc ctgcccgagc aagggagttc cctggaggcc			
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&lt;210&gt; 1744

&lt;211&gt; 796

&lt;212&gt; PRT

&lt;213&gt; Homo sapiens

&lt;400&gt; 1744

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Met	Asp	Val	Leu	Gly	Thr	Val	Gly	Ser	Cys	Gly	Ala	Pro	Asn	Phe	Arg

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Ser Gly	Phe Arg	Arg Val	Leu Gln	Lys Leu	Gln Lys	Asp Gly	His Arg							
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Glu Cys	Val Ile	Phe Cys	Val Arg	Glu Glu	Pro Val	Leu Phe	Leu Arg							
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Ala Asp	Glu Asp	Phe Val	Ser Tyr	Thr Pro	Arg Asp	Lys Gln	Asn Leu							
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His Glu	Asn Leu	Gln Gly	Leu Gly	Pro Gly	Val Arg	Val Glu	Ser Leu							
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Glu Leu	Ala Ile	Arg Lys	Glu Ile	His Asp	Phe Ala	Gln Leu	Ser Glu							
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Asn Thr	Tyr His	Val Tyr	His Asn	Thr Glu	Asp Leu	Trp Gly	Glu Pro							
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His Ala	Val Ala	Ile His	Gly Glu	Asp Asp	Leu His	Val Thr	Glu Glu							
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Val Tyr	Lys Arg	Pro Leu	Phe Leu	Gln Pro	Thr Tyr	Arg Tyr	His Arg							
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Leu Pro	Leu Pro	Glu Gln	Gly Ser	Pro Leu	Glu Ala	Gln Leu	Asp Ala							
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Phe Val	Ser Val	Leu Arg	Glu Thr	Pro Ser	Leu Leu	Gln Leu	Arg Asp							
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Ala His	Gly Pro	Pro Pro	Ala Leu	Val Phe	Ser Cys	Gln Met	Gly Val							
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Gly Arg	Thr Asn	Leu Gly	Met Val	Leu Gly	Thr Leu	Ile Leu	Leu His							
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Arg Ser	Gly Thr	Thr Ser	Gln Pro	Glu Ala	Ala Pro	Thr Gln	Ala Lys							
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Lys Lys	Leu Glu	Gly Ile	Arg Pro	Glu Ser	Pro Ala	Gln Gly	Ser Gly							
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Ser Arg	His Ser	Val Trp	Gln Arg	Ala Leu	Trp Ser	Leu Glu	Arg Tyr							
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Phe Tyr	Leu Ile	Leu Phe	Asn Tyr	Tyr Leu	His Glu	Gln Tyr	Pro Leu							
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Asp Leu	Ile Ala	Arg Gly	Ser Leu	Arg Glu	Asp Asp	Leu Val	Ser Pro							
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Asp Ala	Leu Ser	Thr Val	Arg Glu	Met Asp	Val Ala	Asn Phe	Arg Arg							
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Val Pro	Arg Met	Pro Ile	Tyr Gly	Thr Ala	Gln Pro	Ser Ala	Lys Ala							
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Lys Val	Val Trp	Val Ser	Leu Arg	Glu Glu	Ala Val	Leu Glu	Cys Asp							

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Ile	Cys	Thr	Tyr	Arg	Gln	Ala	Lys	Ala	Ala	Lys	Glu	Ala	Gln	Glu	Met				
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Arg	Arg	Leu	Gln	Leu	Arg	Ser	Leu	Gln	Tyr	Leu	Glu	Arg	Tyr	Val	Cys				
705										710			715		720				
Leu	Ile	Leu	Phe	Asn	Ala	Tyr	Leu	His	Leu	Glu	Lys	Ala	Asp	Ser	Trp				
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740										745			750						
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Glu	Asp	Gln	Pro	Phe	Ser	Arg	Leu	Arg	Tyr	Arg	Trp	Gln	Glu	Gln	Ser				
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&lt;210&gt; 1745

&lt;211&gt; 426

<212> DNA

<213> Homo sapiens

&lt;400&gt; 1745

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240

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 <213> Homo sapiens

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 35 40 45  
 Glu Lys Arg Trp Asp Lys Ile Gln Glu Leu Val Lys Lys Asp Gly Ile  
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 Asp Asn Lys Tyr Thr Lys Val Glu Ala Gly Val Cys Ser Arg  
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<210> 1747  
 <211> 373  
 <212> DNA  
 <213> Homo sapiens

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 <212> PRT  
 <213> Homo sapiens

<400> 1748  
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 Met Tyr Gln Tyr Glu Pro His Ala Asp Gly His Gly Leu Trp Gly His  
 35 40 45  
 Val Thr Ser Pro Asn Phe Ser Pro Phe Asn Trp Thr Asp Gly Glu Asp  
 50 55 60  
 Ile Leu Val Pro Glu Gly Glu Glu Thr Asp Leu Trp Ala Gly Ser Val  
 65 70 75 80  
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<210> 1749  
 <211> 853  
 <212> DNA  
 <213> Homo sapiens

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<210> 1750  
 <211> 64  
 <212> PRT  
 <213> Homo sapiens

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 Ser Leu Pro Glu Ala Leu Met Ser Pro Tyr Val Pro Gly Thr Gly Ala  
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<210> 1751  
 <211> 531  
 <212> DNA  
 <213> Homo sapiens

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<210> 1752  
 <211> 159  
 <212> PRT  
 <213> Homo sapiens

<400> 1752  
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Gly Val Ser Glu Leu Thr Asp Arg Ala Trp Ser Ser Leu Ser Gly Gly
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Glu Arg Gln Arg Val Gln Leu Ala Arg Ala Leu Ala Gln Glu Pro Glu
      50           55           60
Ile Leu Phe Leu Asp Glu Pro Thr Asn His Leu Asp Leu Pro His Gln
      65           70           75           80
Ile Asp Leu Leu Glu Arg Val Arg Gly Leu Gly Leu Thr Thr Val Thr
      85           90           95
Val Ile His Asp Leu Asp Leu Ala Ala Ala Tyr Ala Asp Asp Leu Ile
      100          105          110
Val Leu Asp Ser Gly Arg Met Val Ala Gly Gly Pro Ala Ser Thr Val
      115          120          125
Leu Thr Pro Gly Leu Val Arg Asp His Phe Gly Val Asp Gly Glu Val
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Trp Ser Ser Ser Arg Arg Gly Phe Thr Trp Asn Gly Leu Gln Thr
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&lt;210&gt; 1753

&lt;211&gt; 920

&lt;212&gt; DNA

&lt;213&gt; Homo sapiens

&lt;400&gt; 1753

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<210> 1754  
 <211> 210  
 <212> PRT  
 <213> Homo sapiens

<400> 1754  
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 Leu Gly Pro Cys Trp Asp Pro Met Ala Leu Gly Thr Gln Gly Arg Leu  
 20 25 30  
 Leu Leu Asp Arg Asp Ser Lys Asp Thr Gln Thr Arg Ile Ser Gln Lys  
 35 40 45  
 Gly Arg Arg Leu Gln Pro Pro Gly Thr Pro Ser Ala Pro Pro Gln Arg  
 50 55 60  
 Arg Pro Arg Lys Gln Leu Asn Pro Cys Arg Gly Thr Glu Arg Val Asp  
 65 70 75 80  
 Pro Gly Phe Glu Gly Val Thr Leu Lys Phe Gln Ile Lys Pro Asp Ser  
 85 90 95  
 Ser Leu Gln Ile Ile Pro Thr Tyr Ser Leu Pro Cys Ser Ser Arg Ser  
 100 105 110  
 Gln Glu Ser Pro Ala Asp Ala Val Gly Gly Xaa Ala Ala Ile Pro Glu  
 115 120 125  
 Gly Thr Glu Gly His Ser Ala Gly Ser Glu Ala Leu Glu Pro Arg Arg  
 130 135 140  
 Cys Ala Ser Cys Arg Thr Gln Arg Thr Pro Leu Trp Arg Asp Ala Glu  
 145 150 155 160  
 Asp Gly Thr Leu Leu Cys Asn Ala Cys Gly Ile Arg Tyr Lys Lys Tyr  
 165 170 175  
 Gly Thr Arg Cys Ser Ser Cys Trp Leu Val Pro Arg Lys Asn Val Gln  
 180 185 190  
 Pro Lys Arg Leu Cys Gly Arg Cys Gly Val Ser Leu Asp Pro Ile Gln  
 195 200 205  
 Glu Gly  
 210

<210> 1755  
 <211> 437  
 <212> DNA  
 <213> Homo sapiens

<400> 1755  
 nnttctgcag agtagggaga cagtcttggg cctggatggc cattagtgc tggagtcacg  
 60  
 ggagcaatca gaaatgatca aggagaatcc ttgatacgaa ctgcattcca gtgtcttcag  
 120  
 ttggttgatga cagattttct accaacaatg ccttgactt gcctgcaaat agttgttagat  
 180  
 gttgcaggta gctttggcct ccataaccaa gaactcaat ttagtttaac ttcaatagggt  
 240

ttattgtgga atatttcaga ttattttttc caaagagggg aaactattga aaaagaacta  
 300  
 aataaggaag aggcagcaca gcaaaagcag gcagaagaga aaggagtgtg tttaaactgg  
 360  
 ccattccacc ctgcaccgcc atttgattgc ttgtggttat gtctttatgc aaaattgggt  
 420  
 gaactatgtg tggatcc  
 437

<210> 1756

<211> 126

<212> PRT

<213> Homo sapiens

<400> 1756

Met	Gly	Ala	Ile	Arg	Asn	Asp	Gln	Gly	Glu	Ser	Leu	Ile	Arg	Thr	Ala
1				5					10					15	
Phe	Gln	Cys	Leu	Gln	Leu	Val	Val	Thr	Asp	Phe	Leu	Pro	Thr	Met	Pro
			20					25					30		
Cys	Thr	Cys	Leu	Gln	Ile	Val	Val	Asp	Val	Ala	Gly	Ser	Phe	Gly	Leu
			35				40					45			
His	Asn	Gln	Glu	Leu	Asn	Ile	Ser	Leu	Thr	Ser	Ile	Gly	Leu	Leu	Trp
	50				55					60					
Asn	Ile	Ser	Asp	Tyr	Phe	Phe	Gln	Arg	Gly	Glu	Thr	Ile	Glu	Lys	Glu
	65				70				75					80	
Leu	Asn	Lys	Glu	Glu	Ala	Ala	Gln	Gln	Lys	Gln	Ala	Glu	Glu	Lys	Gly
			85					90						95	
Val	Val	Leu	Asn	Arg	Pro	Phe	His	Pro	Ala	Pro	Pro	Phe	Asp	Cys	Leu
			100					105					110		
Trp	Leu	Cys	Leu	Tyr	Ala	Lys	Leu	Gly	Glu	Leu	Cys	Val	Asp		
			115				120					125			

<210> 1757

<211> 1297

<212> DNA

<213> Homo sapiens

<400> 1757

nggatccgac ggaaatagaa ttgaaggcat tctaaaaatgg ctaaccgtac agtgaaggat  
 60  
 gcgcacagca tccatggcac caaccctcaa tatctggttg agaagatcat tcgaacgcga  
 120  
 atctatgagt ccaagtactg gaaagaggag tgctttggac ttacagctga actttagtgc  
 180  
 gataaagcca tggagttaag gtttggtgggt ggcgtctatg gtggcaacat aaaaccaaca  
 240  
 ccctttctgt gtttaacctt gaagatgcct caaattcaac ccgagaagga tatcattgta  
 300  
 gagtttatca aaaatgaaga tttcaagtat gtccgcatgc tggggggcact ttacatgagg  
 360  
 ctgacaggca ctgaattga ttgctacaag tacttggaac ctttgtacaa tgactatcga  
 420  
 aaaatcaaga gccagaaccg aaatggggag tttgaattga tgcatgttga tgagtttatt  
 480

gatgaactat tgcacagtga gagagtctgt gatatcattc tgccccgact acagaaacgc  
 540  
 tatgtattag aggaagctga gcaactggag cctcgagtta gtgctctgga agaggacatg  
 600  
 gatgatgtgg agtccagtga agaggaagaa gaggaggatg agaagtgtgga aagagtgccca  
 660  
 tcacctgac accgccggag aagctaccga gacttggaca agccccgtcg ctctcccaca  
 720  
 ctgcgctaca ggaggagtag gagccggtct cccagaaggc ggagtcgac tcaccaaaagg  
 780  
 agaagccctt cccctcgccg agaaaggcat cggagcaaga gtccaagacg tcaccgcagc  
 840  
 aggtcccgag atcggcggca cagatcccg tccaagtccc caggctcatca cgtagtacac  
 900  
 agacacagga gccactcaaa gtctcccgaa aggtctaaga agagccacaa gaagagccgg  
 960  
 agagggaatg agtaatggac tcagttttgt tttagtccac atggcctcct gtggatataa  
 1020  
 ggatatctgt atgtggaagg attaatctt cccccaggca gctataagaa tatttttagtt  
 1080  
 tttttcttat caagtttctc aacctttatt tttaatgaag gagggtgctga gttttgtatc  
 1140  
 tttttaatca taatcaacat cagtttttga cccaactaac cttgactgta ttcaaactta  
 1200  
 tgagagtata aaggatctgg aggttgggga tatgactgac aaggaaaggc tgtggccacc  
 1260  
 tgatgacctt ttcccttttt attaaaccgg acacacc  
 1297

&lt;210&gt; 1758

&lt;211&gt; 312

&lt;212&gt; PRT

&lt;213&gt; Homo sapiens

&lt;400&gt; 1758

Met	Ala	Asn	Arg	Thr	Val	Lys	Asp	Ala	His	Ser	Ile	His	Gly	Thr	Asn
1				5					10					15	
Pro	Gln	Tyr	Leu	Val	Glu	Lys	Ile	Ile	Arg	Thr	Arg	Ile	Tyr	Glu	Ser
			20					25					30		
Lys	Tyr	Trp	Lys	Glu	Glu	Cys	Phe	Gly	Leu	Thr	Ala	Glu	Leu	Val	Val
			35				40					45			
Asp	Lys	Ala	Met	Glu	Leu	Arg	Phe	Val	Gly	Gly	Val	Tyr	Gly	Gly	Asn
	50					55				60					
Ile	Lys	Pro	Thr	Pro	Phe	Leu	Cys	Leu	Thr	Leu	Lys	Met	Leu	Gln	Ile
	65				70				75					80	
Gln	Pro	Glu	Lys	Asp	Ile	Ile	Val	Glu	Phe	Ile	Lys	Asn	Glu	Asp	Phe
			85						90				95		
Lys	Tyr	Val	Arg	Met	Leu	Gly	Ala	Leu	Tyr	Met	Arg	Leu	Thr	Gly	Thr
			100				105						110		
Ala	Ile	Asp	Cys	Tyr	Lys	Tyr	Leu	Glu	Pro	Leu	Tyr	Asn	Asp	Tyr	Arg
		115					120					125			
Lys	Ile	Lys	Ser	Gln	Asn	Arg	Asn	Gly	Glu	Phe	Glu	Leu	Met	His	Val
	130				135					140					
Asp	Glu	Phe	Ile	Asp	Glu	Leu	Leu	His	Ser	Glu	Arg	Val	Cys	Asp	Ile

```

145          150          155          160
Ile Leu Pro Arg Leu Gln Lys Arg Tyr Val Leu Glu Glu Ala Glu Gln
          165          170          175
Leu Glu Pro Arg Val Ser Ala Leu Glu Glu Asp Met Asp Asp Val Glu
          180          185          190
Ser Ser Glu Glu Glu Glu Glu Asp Glu Lys Leu Glu Arg Val Pro
          195          200          205
Ser Pro Asp His Arg Arg Arg Ser Tyr Arg Asp Leu Asp Lys Pro Arg
          210          215          220
Arg Ser Pro Thr Leu Arg Tyr Arg Arg Ser Arg Ser Arg Ser Pro Arg
          225          230          235
Arg Arg Ser Arg Ser Pro Lys Arg Arg Ser Pro Ser Pro Arg Arg Glu
          245          250          255
Arg His Arg Ser Lys Ser Pro Arg Arg His Arg Ser Arg Ser Asp
          260          265          270
Arg Arg His Arg Ser Arg Ser Lys Ser Pro Gly His His Arg Ser His
          275          280          285
Arg His Arg Ser His Ser Lys Ser Pro Glu Arg Ser Lys Lys Ser His
          290          295          300
Lys Lys Ser Arg Arg Gly Asn Glu
305          310

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<210> 1759

<211> 324

<212> DNA

<213> Homo sapiens

<400> 1759

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aattccatag tcctcatggg caagagttag acagcgtgga ggaccaactc ccaggcactc
60
ggcctgggca gacacaatta ttgtcggaaat ccagatgggtg atgccagacc ttgggtgccat
120
gtgatgaagg accgaaagct gacgtgggaa tactgtgaca tgtccccatg ctccacctgt
180
ggcctgaggc agtgcaaacg gcctcagttt agaactaaaaggaggactcta cacagacatc
240
acctcacacc cttggcaggc tgccatcttt gtcagacaaca agagggtctcc tggagagaga
300
ttcctttgtg gaggggtgct gatc
324

```

<210> 1760

<211> 108

<212> PRT

<213> Homo sapiens

<400> 1760

```

Asn Ser Ile Val Leu Met Gly Lys Ser Tyr Thr Ala Trp Arg Thr Asn
1          5          10          15
Ser Gln Ala Leu Gly Leu Gly Arg His Asn Tyr Cys Arg Asn Pro Asp
          20          25          30
Gly Asp Ala Arg Pro Trp Cys His Val Met Lys Asp Arg Lys Leu Thr
          35          40          45
Trp Glu Tyr Cys Asp Met Ser Pro Cys Ser Thr Cys Gly Leu Arg Gln

```

```

      50              55              60
Cys Lys Arg Pro Gln Phe Arg Thr Lys Gly Gly Leu Tyr Thr Asp Ile
65              70              75              80
Thr Ser His Pro Trp Gln Ala Ala Ile Phe Val Ser Asn Lys Arg Ser
      85              90              95
Pro Gly Glu Arg Phe Leu Cys Gly Gly Val Leu Ile
      100              105

<210> 1761
<211> 351
<212> DNA
<213> Homo sapiens

<400> 1761
ngcgatctcg gctcactaca acctcgggtga cagagcgaga ctctatccca aaaaaataaa
60
aataaaaatc aactggagaa ggaaatgggg ttggggagca tctctgta atataaaggc
120
agccattcat ttaggagag gaggtagaag gaaatgctgt ttgtcgatgg ttcttttcca
180
gagaggaaga gaggagaaag gaagagcggg gagcaggtgg ggagcccga gtaagacccc
240
acagtggggc caggtggtct tgcaccctgt attcccactt tggctggggc agcccagagt
300
ccaggccagc aggtaatgcc ccagccatgc ccaactcggtc ctattggatc c
351

<210> 1762
<211> 109
<212> PRT
<213> Homo sapiens

<400> 1762
Met Ala Gly Ala Leu Pro Ala Gly Leu Asp Ser Gly Leu Pro Gln Pro
1              5              10              15
Lys Trp Glu Tyr Arg Val Gln Asp His Leu Ala Pro Leu Trp Gly Leu
      20              25              30
Thr Ala Gly Ser Pro Pro Ala Pro Arg Ser Ser Phe Leu Leu Ser Ser
      35              40              45
Ser Leu Glu Lys Asn His Arg Gln Thr Ala Phe Pro Ser Thr Ser Ser
      50              55              60
Pro Thr Met Asn Gly Cys Leu Tyr Ile Phe Arg Gly Cys Ser Pro Thr
65              70              75              80
Pro Phe Pro Ser Pro Val Asp Phe Tyr Phe Tyr Phe Phe Gly Ile Glu
      85              90              95
Ser Arg Ser Val Thr Glu Val Val Val Ser Arg Asp Arg
      100              105

<210> 1763
<211> 356
<212> DNA
<213> Homo sapiens

<400> 1763

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gcgcgccggg ggcgcgatgt ggagcgggca cttaccctgt tcattggccaa gacaggcgag  
 60  
 actcagagtc ttttcaaaga tgacgtcagc acatttccat tgattgtctc cagaccttcc  
 120  
 accatcccct acctgacagc ttttcttccg tctgaactgg agatgcaaca aatggaagag  
 180  
 acagattcct cggagcagga tgaacagaca gacacagaga acctgtctct tcatatcagc  
 240  
 atggaggatt ctggagccga gaaagagaac acctctgtcc tgcagcagaa cccctccttg  
 300  
 tcgggtagcc ggaatgggga ggagaacatc atcgataacc cttatctgcg accggg  
 356

<210> 1764

<211> 118

<212> PRT

<213> Homo sapiens

<400> 1764

Ala	Arg	Arg	Gly	Arg	Asp	Val	Glu	Arg	Ala	Leu	Thr	Arg	Phe	Met	Ala
1				5					10					15	
Lys	Thr	Gly	Glu	Thr	Gln	Ser	Leu	Phe	Lys	Asp	Asp	Val	Ser	Thr	Phe
			20					25					30		
Pro	Leu	Ile	Ala	Ala	Arg	Pro	Phe	Thr	Ile	Pro	Tyr	Leu	Thr	Ala	Leu
		35					40					45			
Leu	Pro	Ser	Glu	Leu	Glu	Met	Gln	Gln	Met	Glu	Glu	Thr	Asp	Ser	Ser
		50				55					60				
Glu	Gln	Asp	Glu	Gln	Thr	Asp	Thr	Glu	Asn	Leu	Ala	Leu	His	Ile	Ser
				70					75					80	
Met	Glu	Asp	Ser	Gly	Ala	Glu	Lys	Glu	Asn	Thr	Ser	Val	Leu	Gln	Gln
				85					90					95	
Asn	Pro	Ser	Leu	Ser	Gly	Ser	Arg	Asn	Gly	Glu	Glu	Asn	Ile	Ile	Asp
				100				105					110		
Asn	Pro	Tyr	Leu	Arg	Pro										
				115											

<210> 1765

<211> 357

<212> DNA

<213> Homo sapiens

<400> 1765

cgcccgccatt cttcgtgact ggctccccgc cgccgggtgca aaagtgtcag gaaataccag  
 60  
 tcatgactat gtttagccgc acctctctgc agtatgcgat cgttctggga gcgctggggc  
 120  
 gtgcggtctt ggctctctgg gccatgtcga gtgcgacgga ggccaatcag gcggaattg  
 180  
 cccaggccag gccaggcatt attgcggcgg cgccgggtgt cgtggatgtc gagggcgggc  
 240  
 tgctgcggct ctccaccagg cgcgacgggg tgattcagga tgtgccgggt aaggaaggac  
 300  
 agcgggtcaa agccggcgat atcctcgccg cgctcgacaa tcgcccgcga ctgatcg  
 357

<210> 1766  
 <211> 98  
 <212> PRT  
 <213> Homo sapiens

<400> 1766  
 Met Thr Met Phe Ser Arg Thr Ser Leu Gln Tyr Ala Ile Val Leu Ala  
 1 5 10 15  
 Ala Leu Gly Gly Ala Gly Leu Ala Leu Trp Ala Met Ser Ser Ala Thr  
 20 25 30  
 Glu Ala Asn Gln Ala Glu Ile Ala Gln Ala Arg Pro Gly Ile Ile Ala  
 35 40 45  
 Ala Ala Arg Gly Val Val Asp Val Glu Gly Gly Leu Leu Arg Leu Ser  
 50 55 60  
 Thr Gln Arg Asp Gly Val Ile Gln Asp Val Pro Val Lys Glu Gly Gln  
 65 70 75 80  
 Arg Val Lys Ala Gly Asp Ile Leu Ala Ala Leu Asp Asn Arg Arg Glu  
 85 90 95  
 Leu Ile

<210> 1767  
 <211> 297  
 <212> DNA  
 <213> Homo sapiens

<400> 1767  
 nnnccgccgac ggccgccatg acgcaccgca ttgacgtgaa ccaggggcgac gatgcccaacc  
 60  
 ccggccaaca cgccaggctg cttgacgcgc ccagccaacc cgacgaacgc cccaccaaga  
 120  
 acgagcccca gccatccccg gccaatcaac gccagacgta tggccacaac gaggtcgacg  
 180  
 agggacaaac ccacctggag tccgtcgttg tgcattcccc ccaccacgct caacgtcgct  
 240  
 aatggacagc acaccgccag ccagagggca tgatccggat cggttccggc gtacgcn  
 297

<210> 1768  
 <211> 73  
 <212> PRT  
 <213> Homo sapiens

<400> 1768  
 Met Pro Thr Pro Ala Asn Thr Pro Gly Cys Leu Thr Pro Pro Ala Asn  
 1 5 10 15  
 Pro Thr Asn Ala Pro Pro Arg Thr Ser Pro Ser His Pro Arg Pro Ile  
 20 25 30  
 Asn Ala Arg Arg Met Ala Thr Thr Ser Ala Thr Arg Asp Lys Pro Thr  
 35 40 45  
 Trp Ser Pro Ser Leu Cys Met Pro Pro Thr Thr Leu Asn Val Val Asn  
 50 55 60  
 Gly Gln His Thr Ala Ser Gln Arg Ala

65

70

<210> 1769  
 <211> 474  
 <212> DNA  
 <213> Homo sapiens

<400> 1769  
 caccatgctg gctcgggttcg acgcattcgg gtgggtgagt ctgttctcgt caccgacggg  
 60  
 cagggtcatg ccgttcgtgg ccctgccatt gaggtgacga aagggtcagt tagcgtcgag  
 120  
 accgttgaga tcctccatac tcccgcgacc acgcatcgat gggctgcctg ccaggcattg  
 180  
 ccgaagtccg atagagctga gctggcgggtg gcgacctca ccgagatggg agttcacgaa  
 240  
 atcctcgcct ggcaggctga tcggagcacc gtgcgatgga agggcgacaa gcaagccaag  
 300  
 ggctgcgcga ggtggcaagc ggctgccctg gaggccacca aacagtctcg acgttttctt  
 360  
 gtgccacagg tagaactagc gcaaaccctg gaagttgtta agcggatttg caatgccacg  
 420  
 gccgcctacg ttttgcacga gtcggccagt gaaccgtctg tgcacagga gctc  
 474

<210> 1770  
 <211> 158  
 <212> PRT  
 <213> Homo sapiens

<400> 1770  
 His His Ala Gly Ser Val Arg Arg Ile Arg Val Gly Glu Ser Val Leu  
 1 5 10 15  
 Val Thr Asp Gly Gln Gly His Ala Val Arg Gly Pro Ala Ile Glu Val  
 20 25 30  
 Thr Lys Gly Ser Val Ser Val Glu Thr Val Glu Ile Leu His Thr Pro  
 35 40 45  
 Ala Thr Thr His Arg Trp Val Ala Val Gln Ala Leu Pro Lys Ser Asp  
 50 55 60  
 Arg Ala Glu Leu Ala Val Ala Thr Leu Thr Glu Met Gly Val His Glu  
 65 70 75 80  
 Ile Leu Ala Trp Gln Ala Asp Arg Ser Ile Val Arg Trp Lys Gly Asp  
 85 90 95  
 Lys Gln Ala Lys Gly Val Ala Arg Trp Gln Ala Ala Ala Arg Glu Ala  
 100 105 110  
 Thr Lys Gln Ser Arg Arg Phe Leu Val Pro Gln Val Glu Leu Ala Gln  
 115 120 125  
 Thr Arg Glu Val Val Lys Arg Ile Cys Asn Ala Gln Ala Ala Tyr Val  
 130 135 140  
 Leu His Glu Ser Ala Ser Glu Pro Leu Val His Gln Glu Leu  
 145 150 155

<210> 1771  
 <211> 287

&lt;212&gt; DNA

&lt;213&gt; Homo sapiens

&lt;400&gt; 1771

acgcgtgatg ggtaattcta atacatgcaa agaattatct ctgcaagtat actcagatat  
 60  
 taataacagc ggggtgtcgca gaggaagaag cctgggagaa tggaagtcag ggaaggagag  
 120  
 caacaggctt ctcaactctgt gccatgagca tgtgctagcc atggagacac tctgcatgtt  
 180  
 acctagaact gctgattcat tgctctggaa ttattcagct attcaagacc cagtgaataa  
 240  
 cagcaagcag ctttcattca tacacacaca tgtgcatcca tgtgcac  
 287

&lt;210&gt; 1772

&lt;211&gt; 93

&lt;212&gt; PRT

&lt;213&gt; Homo sapiens

&lt;400&gt; 1772

Met	Gly	Asn	Ser	Asn	Thr	Cys	Lys	Glu	Leu	Ser	Leu	Gln	Val	Tyr	Ser
1				5				10				15			
Asp	Ile	Asn	Asn	Ser	Gly	Cys	Arg	Arg	Gly	Arg	Ser	Leu	Gly	Glu	Trp
		20					25					30			
Lys	Ser	Gly	Lys	Glu	Ser	Asn	Arg	Leu	Leu	Thr	Leu	Cys	His	Glu	His
		35					40					45			
Val	Leu	Ala	Met	Glu	Thr	Leu	Cys	Met	Leu	Pro	Arg	Thr	Ala	Asp	Ser
	50				55					60					
Leu	Leu	Trp	Asn	Tyr	Ser	Ala	Ile	Gln	Asp	Pro	Val	Lys	Tyr	Ser	Lys
65			70						75						80
Gln	Leu	Ser	Phe	Ile	His	Thr	His	Val	His	Pro	Cys	Ala			
			85					90							

&lt;210&gt; 1773

&lt;211&gt; 393

&lt;212&gt; DNA

&lt;213&gt; Homo sapiens

&lt;400&gt; 1773

accggtgagt tctacgtccc ggtaaacac ctcgagggtg aacaggcgca cctcgacgtc  
 60  
 ttcgattctc cgcttaacga gtacgcagcg atgggatttg agtacggcta ctctgttgcc  
 120  
 cgtccggatt ctctggtatt gtgggaagcc caattcggcg atttcaccaa cggtgccacc  
 180  
 acgatcatcg atgagttcat cgcctcggct ggctccaagt ggggtcagaa gtcgggagtc  
 240  
 gtgctgtctg tgcgcacagg ttacgaaggt caggggcctg atcactcgtc ggcccgtctg  
 300  
 gagcgcctcc tcaatctatg cagtgaagac gctttggccg tctgccagcc ctgcaccccc  
 360  
 gcaagctaca gccatttatt gcgtcagcac gcg  
 393

<210> 1774  
 <211> 131  
 <212> PRT  
 <213> Homo sapiens

<400> 1774  
 Thr Gly Glu Phe Tyr Val Pro Val Asn His Leu Gly Gly Glu Gln Ala  
 1 5 10 15  
 His Leu Asp Val Phe Asp Ser Pro Leu Asn Glu Tyr Ala Ala Met Gly  
 20 25 30  
 Phe Glu Tyr Gly Tyr Ser Val Ala Arg Pro Asp Ser Leu Val Leu Trp  
 35 40 45  
 Glu Ala Gln Phe Gly Asp Phe Thr Asn Gly Ala Gln Thr Ile Ile Asp  
 50 55 60  
 Glu Phe Ile Ala Ser Ala Gly Ser Lys Trp Gly Gln Lys Ser Gly Val  
 65 70 75 80  
 Val Leu Leu Leu Pro His Gly Tyr Glu Gly Gln Gly Pro Asp His Ser  
 85 90 95  
 Ser Ala Arg Leu Glu Arg Phe Leu Asn Leu Cys Ser Glu Asp Ala Leu  
 100 105 110  
 Ala Val Cys Gln Pro Ser Thr Pro Ala Ser Tyr Ser His Leu Leu Arg  
 115 120 125  
 Gln His Ala  
 130

<210> 1775  
 <211> 369  
 <212> DNA  
 <213> Homo sapiens

<400> 1775  
 nncctccgag cagctctccg gggcagaccc cagctgcaag ccacagcccg gccctggtaa  
 60  
 cgggagggca tcgctaggga ggggtggggc ggcccgccct cgatgcagcc atgtggggagg  
 120  
 gccactctca gagaccccc gccttccttg ccacccccac ccagagggg aagctggagc  
 180  
 tgggaggctg cagaccagg ccaaggtgtg gccagggctg gctttcttgg gaggctttga  
 240  
 gcatcctgct tcctggccac ccagctctgg ggctgctgtc aactcttgat ttgtagacat  
 300  
 cactccagcc tctggcctgt caccctgaac ctcccccatg tctgtgtctt ttctcactgg  
 360  
 aacaccggt  
 369

<210> 1776  
 <211> 59  
 <212> PRT  
 <213> Homo sapiens

<400> 1776  
 Arg Glu Gly Ile Ala Arg Glu Gly Trp Gly Gly Pro Ala Ser Met Gln

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      1           5           10           15
Pro Cys Gly Arg Ala Thr Leu Arg Asp Pro Pro Ser Leu Pro Pro
      20
Pro Pro Gln Arg Gly Ser Trp Ser Trp Glu Ala Ala Asp Pro Gly Gln
      35
Gly Val Ala Arg Ala Gly Phe Leu Gly Arg Leu
      50           55

```

&lt;210&gt; 1777

&lt;211&gt; 370

&lt;212&gt; DNA

&lt;213&gt; Homo sapiens

&lt;400&gt; 1777

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agcttcttat cactatcctt tagtgctttt tggctacct tagcggtaat gctccatcaa
60
gaatatgggtt ttggtagtgc aactgcggga ttttttggcc tcgctgggtc cgccggagct
120
ttagcagcac cactgtccgg taaactaaca gataaacaag gaccgacacg ggtcacgcag
180
ctgggtgctg ccttagttgt cgtctctttc gcctctatgt tgttattgcc ttacttcagt
240
atcagtagcc aagttataat gattattggt gctaccatag tgtttgacct tgggtgttcag
300
gcggcactta ttgctcatca aaccttagtg tataacattg actctaccgc tcgtggacgc
360
cttaacgcgt
370

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&lt;210&gt; 1778

&lt;211&gt; 123

&lt;212&gt; PRT

&lt;213&gt; Homo sapiens

&lt;400&gt; 1778

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Ser Phe Leu Ser Leu Ser Phe Ser Ala Phe Trp Ser Thr Leu Ala Val
1           5           10           15
Met Leu His Gln Glu Tyr Gly Phe Gly Ser Ala Thr Ala Gly Phe Phe
      20
Gly Leu Ala Gly Ala Ala Gly Ala Leu Ala Ala Pro Leu Ser Gly Lys
      35
Leu Thr Asp Lys Gln Gly Pro Thr Arg Val Thr Gln Leu Gly Ala Ala
      50           55           60
Leu Val Val Val Ser Phe Ala Ser Met Leu Leu Leu Pro Tyr Phe Ser
      65           70           75           80
Ile Ser Thr Gln Val Ile Met Ile Ile Val Ala Thr Ile Val Phe Asp
      85           90           95
Phe Gly Val Gln Ala Ala Leu Ile Ala His Gln Thr Leu Val Tyr Asn
      100           105           110
Ile Asp Ser Thr Ala Arg Gly Arg Leu Asn Ala
      115           120

```

&lt;210&gt; 1779

&lt;211&gt; 345

&lt;212&gt; DNA

&lt;213&gt; Homo sapiens

&lt;400&gt; 1779

ccatgtgtgt gtatatgctc gtgtgtgatg gtatgtatat gtgtatatgt gnnatatgt  
 60  
 atacacgtgt gttatgggtgt gtatatatgt atatacgtgt gtgtatatat atgtatatgg  
 120  
 gtatgtgtgt gcatgtgcgt atgggtgtgt atatgtgtat atatgtaggt gtgtatatct  
 180  
 gggaatatat ggggtgtgt atgtgtgtat aggtttttat atgtggggaa atatttaaac  
 240  
 ctgtgtatat tggaaatgtgt gtgtatatgt gtgtatatat ggnggtgtgt atgtacatgt  
 300  
 atgtgtgtat atatgtgtgt atatacgtag gtgtgcatat gtgtg  
 345

&lt;210&gt; 1780

&lt;211&gt; 55

&lt;212&gt; PRT

&lt;213&gt; Homo sapiens

&lt;400&gt; 1780

Pro Cys Val Cys Ile Cys Ser Cys Val Met Val Cys Ile Cys Val Tyr  
 1 5 10 15  
 Val Xaa Ile Cys Ile His Val Cys Tyr Gly Val Tyr Ile Cys Ile Tyr  
 20 25 30  
 Val Cys Val Tyr Ile Cys Ile Trp Val Cys Val Cys Met Cys Val Trp  
 35 40 45  
 Val Cys Ile Cys Val Tyr Met  
 50 55

&lt;210&gt; 1781

&lt;211&gt; 349

&lt;212&gt; DNA

&lt;213&gt; Homo sapiens

&lt;400&gt; 1781

nacgcgtcat gctaaatgtt gccctttatg gcaacatttt cgtcagaaca agcgggaagag  
 60  
 aagctactat ccaagtttca tacgccgggtt aaaagaaaac atgatgatac gagatcatct  
 120  
 gatgtgaaca caacgcaaac tggttcaagc gccacgcca ttacacctgt acccttactg  
 180  
 cccagtgcac aagagccag ttatctttgc cagtgggtgcg ctccccagac acgaaagcag  
 240  
 aagacatggg aggggtgatgc tattcttata ttgcatggaa ataaaaactac ttgttcgcta  
 300  
 cgatccgcac atgatggcag catgctagtgc acgaatgctg ccttccgga  
 349

&lt;210&gt; 1782

&lt;211&gt; 107

&lt;212&gt; PRT

&lt;213&gt; Homo sapiens

&lt;400&gt; 1782

```

Met Ala Thr Phe Ser Ser Glu Gln Ala Glu Glu Lys Leu Leu Ser Lys
 1           5           10           15
Phe His Thr Pro Val Lys Arg Lys His Asp Asp Thr Arg Ser Ser Asp
          20           25           30
Val Asn Thr Thr Gln Thr Gly Ser Ser Ala Thr Pro Ile Thr Pro Val
          35           40           45
Pro Leu Leu Pro Ser Ala Gln Glu Pro Ser Tyr Leu Cys Gln Trp Cys
          50           55           60
Ala Pro Gln Thr Arg Lys His Lys Thr Trp Glu Gly Asp Ala Ile Leu
65          70          75          80
Ile Leu His Gly Asn Lys Thr Thr Cys Ser Leu Arg Ser Ala His Asp
          85          90          95
Gly Ser Met Leu Val Thr Asn Ala Ala Phe Arg
          100          105

```

&lt;210&gt; 1783

&lt;211&gt; 1829

&lt;212&gt; DNA

&lt;213&gt; Homo sapiens

&lt;400&gt; 1783

```

gtgcacgact tcgacgccag cctctcgggc atcgggcagg aactgggcgc cggcgcttac
60
agcatgagtg atgtcttggc attgccatt ttcaagcagg aagattccag cttccattg
120
gatggtgaaa cagagcacc accctttcag tatgtgatgt gtgctgcaac gtcaccagca
180
gtaaaactgc atgatgaaac gcttacttat ttgaaccaag gtcagtcata tgaaaatcgg
240
atgctggata atcggaataat gggatgatag cctgagatca atggaaaatt agtaagagc
300
atcataaggg ttgtattcca tgacagacgg ctacaataca cagagcatca gcaacttgaa
360
ggatggaagt ggaatcgccc aggagacaga cttcttgatt tagatattcc aatgtctgtg
420
ggaataattg acacaaggac gaatccaggc cagttaaatg cggttgtaatt tctgtgggac
480
ccagcaaaac gcacctctgc ttctattcag gtacactgca tcagcacaga atttactcca
540
cggaagcagc gaggtgaaaa gggagtgtccc tttaggatcc aggttgacac ctttaagcag
600
aatgaaaaatg gagaatacac agatcatcta cactcagcta gctgccaaat caaagttttt
660
aagcctaaag gtgcagacag gaaacaaaaa actgaccgag agaagatgga gaagagaaca
720
gctcatgaaa aagaaaagta tcagccgtcc tatgatacca caatcctcac agagatgagg
780
cttgagccta taattgaaga tgcagttgaa catgagcaga aanaagtcca gcaagcggac
840
tttgccgcag actacggtga ttctctggca aagcgaggga gttgttctcc gtggcccgat
900

```

gccccacag cctatgtgaa taacagccct tccccagcgc ccactttcac ctccccacag  
 960  
 cagagcactt gcagtgctcc agacagcaat tcttcttccc caaatcatca gggagatgga  
 1020  
 gcttcacaga cctctgggtga acaaatccag ccttcagcta cgatccagga aacacagcaa  
 1080  
 tggctgctca aaaacagatt ctcttcctac acaagactgt tctctaattt ttcaggtgcc  
 1140  
 gacttattaa aactgacaaa ggaggattta gttcaaattt gtgggtgcgc cgatggaatt  
 1200  
 cggctctata attcactgaa gtcaaggctcg gttgacccc gtttaacat ctatgtctgc  
 1260  
 cgggagcagc caagcagcac agtgctgcaa gggcagcagc aagctgcaag cagtgcgaagc  
 1320  
 gagaatggca gtggggcacc ctatgtttat catgcaatct acttggaaga aatgattgcc  
 1380  
 tcagaagttg ctgaaaaact tgcgctgggtg ttttaatatcc ctctccacca aattaatcag  
 1440  
 gtttacagac aggggtccac cggtattcac attcttggtta gtgacaggt aaatcaaadc  
 1500  
 atttggtttt ccttttcaga ctgggtattta cttttatata tgtaattgta gaactgtaga  
 1560  
 aaaattctgt gacctctttt gaaaaatact atgagaatca ttttcagaga gttgggaatc  
 1620  
 actttggaag aacttataac caagagtttc aggcaccta gtgataatat ggaatacaag  
 1680  
 ccaaggaaaa ctggcttagc ctccccccag ccttttagga tgcagccaat cactggggca  
 1740  
 ctctagggat agtggcaggc tttggccctt tttatgaggt gagtactgg atgtgttttc  
 1800  
 cttttgtcta ttatttgatg actaattta  
 1829

<210> 1784

<211> 514

<212> PRT

<213> Homo sapiens

<400> 1784

Val	His	Asp	Phe		Ala	Ser	Leu	Ser	Gly	Ile	Gly	Gln	Glu	Leu	Gly
1				5					10					15	
Ala	Gly	Ala	Tyr	Ser	Met	Ser	Asp	Val	Leu	Ala	Leu	Pro	Ile	Phe	Lys
			20					25					30		
Gln	Glu	Asp	Ser	Ser	Leu	Pro	Leu	Asp	Gly	Glu	Thr	Glu	His	Pro	Pro
		35				40						45			
Phe	Gln	Tyr	Val	Met	Cys	Ala	Ala	Thr	Ser	Pro	Ala	Val	Lys	Leu	His
	50				55				60						
Asp	Glu	Thr	Leu	Thr	Tyr	Leu	Asn	Gln	Gly	Gln	Ser	Tyr	Glu	Ile	Arg
65				70				75					80		
Met	Leu	Asp	Asn	Arg	Lys	Met	Gly	Asp	Met	Pro	Glu	Ile	Asn	Gly	Lys
			85					90					95		
Leu	Val	Lys	Ser	Ile	Ile	Arg	Val	Val	Phe	His	Asp	Arg	Arg	Leu	Gln
		100					105						110		
Tyr	Thr	Glu	His	Gln	Gln	Leu	Glu	Gly	Trp	Lys	Trp	Asn	Arg	Pro	Gly

```

      115              120              125
Asp Arg Leu Leu Asp Leu Asp Ile Pro Met Ser Val Gly Ile Ile Asp
130              135              140
Thr Arg Thr Asn Pro Gly Gln Leu Asn Ala Val Glu Phe Leu Trp Asp
145              150              155              160
Pro Ala Lys Arg Thr Ser Ala Phe Ile Gln Val His Cys Ile Ser Thr
      165              170              175
Glu Phe Thr Pro Arg Lys His Gly Gly Glu Lys Gly Val Pro Phe Arg
      180              185              190
Ile Gln Val Asp Thr Phe Lys Gln Asn Glu Asn Gly Glu Tyr Thr Asp
      195              200              205
His Leu His Ser Ala Ser Cys Gln Ile Lys Val Phe Lys Pro Lys Gly
210              215              220
Ala Asp Arg Lys Gln Lys Thr Asp Arg Glu Lys Met Glu Lys Arg Thr
225              230              235              240
Ala His Glu Lys Glu Lys Tyr Gln Pro Ser Tyr Asp Thr Thr Ile Leu
      245              250              255
Thr Glu Met Arg Leu Glu Pro Ile Ile Glu Asp Ala Val Glu His Glu
      260              265              270
Gln Lys Xaa Val Gln Gln Ala Asp Phe Ala Ala Asp Tyr Gly Asp Ser
      275              280              285
Leu Ala Lys Arg Gly Ser Cys Ser Pro Trp Pro Asp Ala Pro Thr Ala
290              295              300
Tyr Val Asn Asn Ser Pro Ser Pro Ala Pro Thr Phe Thr Ser Pro Gln
305              310              315              320
Gln Ser Thr Cys Ser Val Pro Asp Ser Asn Ser Ser Ser Pro Asn His
      325              330              335
Gln Gly Asp Gly Ala Ser Gln Thr Ser Gly Glu Gln Ile Gln Pro Ser
      340              345              350
Ala Thr Ile Gln Glu Thr Gln Gln Trp Leu Leu Lys Asn Arg Phe Ser
      355              360              365
Ser Tyr Thr Arg Leu Phe Ser Asn Phe Ser Gly Ala Asp Leu Leu Lys
370              375              380
Leu Thr Lys Glu Asp Leu Val Gln Ile Cys Gly Ala Ala Asp Gly Ile
385              390              395              400
Arg Leu Tyr Asn Ser Leu Lys Ser Arg Ser Val Arg Pro Arg Leu Thr
      405              410              415
Ile Tyr Val Cys Arg Glu Gln Pro Ser Ser Thr Val Leu Gln Gly Gln
      420              425              430
Gln Gln Ala Ala Ser Ser Ala Ser Glu Asn Gly Ser Gly Ala Pro Tyr
      435              440              445
Val Tyr His Ala Ile Tyr Leu Glu Glu Met Ile Ala Ser Glu Val Ala
450              455              460
Arg Lys Leu Ala Leu Val Phe Asn Ile Pro Leu His Gln Ile Asn Gln
465              470              475              480
Val Tyr Arg Gln Gly Pro Thr Gly Ile His Ile Leu Val Ser Asp Gln
      485              490              495
Val Asn Gln Ile Ile Cys Phe Ser Phe Ser Asp Trp Tyr Leu Leu Leu
500              505              510
Tyr Met

```

&lt;210&gt; 1785

&lt;211&gt; 381

&lt;212&gt; DNA

&lt;213&gt; Homo sapiens

&lt;400&gt; 1785

atcaccggacg cagaggagaa agggctgatt actccaggcg tgagtgttct gattgaacca  
 60  
 actagcggca acacagggcat tggactggcc tttatggctg ctgccaaggg ctacaaactt  
 120  
 acactcacia tgcctgcctc catgagcatg gagaggagga tcatattgaa ggcttttggg  
 180  
 gctgaacttg tccttactga cccactcttg ggaatgaaag gagctgtcaa gaaagcggaa  
 240  
 gagatacaag caaagacacc caactcgta atccttcaac aatttgaaaa tccagctaac  
 300  
 ccaaagattc actatgagac tactgggcct gaaatctgga aagctacagc aggaaaaaatt  
 360  
 gatggccttg tatctggtat c  
 381

&lt;210&gt; 1786

&lt;211&gt; 127

&lt;212&gt; PRT

&lt;213&gt; Homo sapiens

&lt;400&gt; 1786

Ile	Thr	Asp	Ala	Glu	Glu	Lys	Gly	Leu	Ile	Thr	Pro	Gly	Val	Ser	Val
1				5				10					15		
Leu	Ile	Glu	Pro	Thr	Ser	Gly	Asn	Thr	Gly	Ile	Gly	Leu	Ala	Phe	Met
			20				25					30			
Ala	Ala	Ala	Lys	Gly	Tyr	Lys	Leu	Thr	Leu	Thr	Met	Pro	Ala	Ser	Met
			35				40				45				
Ser	Met	Glu	Arg	Arg	Ile	Ile	Leu	Lys	Ala	Phe	Gly	Ala	Glu	Leu	Val
	50				55				60						
Leu	Thr	Asp	Pro	Leu	Leu	Gly	Met	Lys	Gly	Ala	Val	Lys	Lys	Ala	Glu
65				70					75					80	
Glu	Ile	Gln	Ala	Lys	Thr	Pro	Asn	Ser	Tyr	Ile	Leu	Gln	Gln	Phe	Glu
			85						90					95	
Asn	Pro	Ala	Asn	Pro	Lys	Ile	His	Tyr	Glu	Thr	Thr	Gly	Pro	Gly	Ile
			100					105					110		
Trp	Lys	Ala	Thr	Ala	Gly	Lys	Ile	Asp	Gly	Leu	Val	Ser	Gly	Ile	
	115						120					125			

&lt;210&gt; 1787

&lt;211&gt; 294

&lt;212&gt; DNA

&lt;213&gt; Homo sapiens

&lt;400&gt; 1787

gtgcacacag caattcaata tgccaagaca ccaggttgca gcagagaaag atttaattgt  
 60  
 agggtcacct aacaaggaga tgagaacaaa ctttaaatct atctctctaa ggaatttgga  
 120  
 cttcggggtt ttaagggtta gaatgggcca aaacatggac attattgatt ggtcaaagag  
 180

tacagggtca tgggaacctgg agatgaaaaa gccatattct catgctgac ctgttcctct  
 240  
 gtggaaggtc ttcaaattgg ttgccggaat aaaagatctg tcaaacatct tagg  
 294

<210> 1788

<211> 91

<212> PRT

<213> Homo sapiens

<400> 1788

Met	Pro	Arg	His	Gln	Val	Ala	Ala	Glu	Lys	Asp	Leu	Ile	Val	Gly	Ser
1			5					10					15		
Pro	Asn	Lys	Glu	Met	Arg	Thr	Asn	Phe	Lys	Ser	Ile	Ser	Leu	Arg	Asn
	20						25					30			
Leu	Asp	Phe	Gly	Phe	Leu	Arg	Phe	Arg	Met	Gly	Gln	Asn	Met	Asp	Ile
	35					40				45					
Ile	Asp	Trp	Ser	Lys	Ser	Thr	Gly	Ser	Trp	Asn	Leu	Glu	Met	Lys	Lys
	50				55				60						
Pro	Tyr	Ser	His	Ala	Asp	Pro	Val	Pro	Leu	Trp	Lys	Val	Phe	Lys	Leu
65				70				75						80	
Val	Ala	Gly	Ile	Lys	Asp	Leu	Ser	Asn	Ile	Leu					
			85					90							

<210> 1789

<211> 353

<212> DNA

<213> Homo sapiens

<400> 1789

ttccacacata caccacacgcg gcatgtcctg acagagatgc acacccctag cacatattca  
 60  
 cacacacaga catgccacac ccgcccaccc cccacactc gtacacgccc accacccctc  
 120  
 gcaggcacac atgcacacac gcgcgcgcac acgcacacac acccccagcc cggaccggcc  
 180  
 gacctgctcc cgggggtctc tcccgcaggc aggtctcctc gccgagtctc cgaaaagggg  
 240  
 cggtcgtggc ggccctggcg ccagctggg caacgcttcg tggatatctca ccgcttctct  
 300  
 ctgttgtgcc cagcgcgccg actgaagatc cggatcttca gtccttggcg cgc  
 353

<210> 1790

<211> 105

<212> PRT

<213> Homo sapiens

<400> 1790

Met	His	Thr	Pro	Ser	Thr	Tyr	Ser	His	Thr	Gln	Thr	Cys	His	Thr	Pro
1				5					10				15		
Pro	Ser	Pro	His	Thr	Arg	Thr	Arg	Pro	Pro	Pro	Leu	Ala	Gly	Thr	His
		20					25				30				
Ala	His	Thr	Arg	Ala	His	Thr	His	Thr	His	Pro	Gln	Pro	Gly	Pro	Ala

```

      35              40              45
Asp Leu Leu Pro Gly Val Ser Pro Ala Gly Arg Ser Pro Arg Arg Val
 50              55              60
Ser Glu Lys Gly Arg Ser Trp Arg Pro Trp Arg Pro Ala Gly Gln Arg
 65              70              75              80
Phe Val Val Ser His Arg Phe Ser Leu Leu Cys Pro Ala Pro Arg Leu
      85              90              95
Lys Ile Arg Ile Phe Ser Pro Trp Arg
      100              105

```

&lt;210&gt; 1791

&lt;211&gt; 355

&lt;212&gt; DNA

&lt;213&gt; Homo sapiens

&lt;400&gt; 1791

```

aaatttcagt tagagattag ggaaaataaa gatgttattt ttteccatcc tagtttacag
 60
acccccccaga aacccactca tggattctcc cgagtctttg gacctggctc agacaccctt
120
gctttggatc aagccaatgc atgtatcccc taacacacccc atgctttatg tggtccttgc
180
ccctccctgc tcagggggact gcttggttaac ttcattgggt tggggacata tatattatag
240
gagagagaca gagaaaaaga aagagaggaa atgttattct ccttgctctgt atctgtatct
300
ccaactccgat tccattccc tctgctgctc tctctctct cctcccttca cgcgt
355

```

&lt;210&gt; 1792

&lt;211&gt; 108

&lt;212&gt; PRT

&lt;213&gt; Homo sapiens

&lt;400&gt; 1792

```

Met Leu Phe Phe Pro Ile Leu Val Tyr Arg Pro Pro Arg Asn Pro Leu
 1              5              10              15
Met Asp Ser Pro Glu Ser Leu Asp Leu Ala Gln Thr Pro Leu Leu Trp
      20              25              30
Ile Lys Pro Met His Val Ser Pro Asn Thr Pro Met Leu Tyr Val Val
      35              40              45
Pro Ala Pro Pro Cys Ser Gly Asp Cys Leu Leu Thr Ser Leu Gly Trp
      50              55              60
Gly His Ile Tyr Tyr Arg Arg Glu Thr Glu Lys Lys Lys Glu Arg Lys
 65              70              75              80
Cys Tyr Ser Pro Cys Leu Tyr Leu Tyr Leu His Ser Asp Ser His Ser
      85              90              95
Leu Cys Cys Ser Pro Leu Ser Pro Pro Phe Thr Arg
      100              105

```

&lt;210&gt; 1793

&lt;211&gt; 510

&lt;212&gt; DNA

&lt;213&gt; Homo sapiens

<400> 1793  
 tgggttccag ccgtagatg accttggcct gggaggcctt ccgaaggcca caccatatac  
 60  
 cacccectcg gagctcctcg cttaccagtc gcccaaaagag cttgtccccc cagcagccag  
 120  
 agtcagccag acccttagca aacaccatag gggatcatctc aatctcttct ccaacttcac  
 180  
 cttcttctct ggagatgaat cctgacaaca cctcagggtc gaggcagaag tcggtggagg  
 240  
 ccgagccgtg ctcattgtgg atggtgcacc gatacacacc gcagctctacg ggggaggcct  
 300  
 gcacgatggc caaggccgcc ggcccctcat cccctgcgct cctgccacc tcgcccactg  
 360  
 ggcgctgac cttggcccat gtcaagactg agtcactaag aatgttgaaa aactggcacc  
 420  
 acagcttcag gctaccggag gcatcaggaa actgctccac ccgaatcttc cggatcacct  
 480  
 gtggggcttt cagcaggtct ttggctttcc  
 510

<210> 1794  
 <211> 116  
 <212> PRT  
 <213> Homo sapiens

<400> 1794  
 Met Thr Leu Ala Trp Glu Ala Phe Arg Arg Pro His Pro Tyr Pro Pro  
 1 5 10 15  
 Pro Arg Ser Ser Ser Leu Thr Ser Arg Pro Lys Ser Leu Ser Pro Gln  
 20 25 30  
 Gln Pro Glu Ser Ala Arg Pro Leu Ala Asn Thr Ile Gly Val Ile Ser  
 35 40 45  
 Ile Ser Ser Pro Thr Ser Pro Ser Ser Leu Glu Met Asn Pro Asp Asn  
 50 55 60  
 Thr Ser Gly Leu Arg Gln Lys Ser Val Glu Ala Glu Pro Cys Ser Leu  
 65 70 75 80  
 Trp Met Val His Arg Tyr Thr Pro Gln Ser Thr Gly Glu Ala Cys Thr  
 85 90 95  
 Met Ala Lys Ala Ala Gly Pro Ser Ser Pro Ala Leu Leu Pro Thr Ser  
 100 105 110  
 Pro Thr Gly Arg  
 115

<210> 1795  
 <211> 386  
 <212> DNA  
 <213> Homo sapiens

<400> 1795  
 ctatgctctg agtcacttct ccaagcattc ctttctgttc ttccttccct gggctgatca  
 60  
 tttcaagaag tcctacattc cagaaaaact gagaggtgct tcttctctgg aagcccttt  
 120

tcttttctgt gagctcaggg agcattctac atacctcagc tgtgtctgct atcttttctgt  
 180  
 taattatcaa tctttccata taaacagtaa aggaccacag tttattcatc agattcccca  
 240  
 tccaaacctg cacctgcata cataaacgca ctggataaat gtaccgcagt agacagagggc  
 300  
 tctccaggtt gagagctcca tgagggcacc aatttttctg tgttttagctg tgtcctcaaa  
 360  
 gcaaggaagg gttgatccgg tctaga  
 386

<210> 1796

<211> 86

<212> PRT

<213> Homo sapiens

<400> 1796

Met	Gln	Val	Gln	Val	Trp	Met	Gly	Asn	Leu	Met	Asn	Lys	Leu	Trp	Ser
1			5					10					15		
Phe	Thr	Val	Tyr	Met	Glu	Arg	Leu	Ile	Ile	Lys	Gln	Lys	Ile	Ala	Asp
		20					25						30		
Thr	Ala	Glu	Val	Cys	Arg	Met	Leu	Pro	Glu	Leu	Thr	Glu	Lys	Lys	Arg
		35					40					45			
Gly	Phe	Gln	Arg	Arg	Ser	Thr	Ser	Gln	Val	Phe	Trp	Asn	Val	Gly	Leu
	50				55					60					
Leu	Glu	Met	Ile	Ser	Pro	Gly	Lys	Glu	Glu	Gln	Lys	Gly	Met	Leu	Gly
65					70				75					80	
Glu	Val	Thr	Gln	Ser	Ile										
					85										

<210> 1797

<211> 348

<212> DNA

<213> Homo sapiens

<400> 1797

aagcttcact atgttgccca ttccatgggc ggcgtgctgg tgcgtgacct gctggcggag  
 60  
 cggaatttgc cgaatgcatt gatcaggcca tctgtctggg ctgcgccgag cagggctcgc  
 120  
 gtgccgctaa tttgttgccg ccatttgctg gcggcgcatc cgtaaaatgg tgtatcacag  
 180  
 cgactatgtg atgcgcgttg cggccacgcc cggcagcgcg cggtggagcg ccatacaactc  
 240  
 acagatggac aacctggtgt tgccggtgac ctccgcaatt ttaccgggaa tgaccatgt  
 300  
 ggcggtggat tacctggggc attgttcggt attgtacagc ccacgcgt  
 348

<210> 1798

<211> 108

<212> PRT

<213> Homo sapiens

&lt;400&gt; 1798

```

Met Gly Gly Val Leu Val Arg Asp Leu Leu Ala Asp Arg Asn Leu Pro
 1           5           10           15
Met Ser Leu Ile Arg Ser Ser Val Trp Ala Arg Arg Ser Arg Ala Arg
 20           25           30
Val Pro Leu Ile Cys Trp Arg His Leu Leu Ala Ala His Pro Ser Asn
 35           40           45
Gly Val Ser Gln Arg Leu Cys Asp Ala Ala Cys Ala His Ala Arg Gln
 50           55           60
Arg Ala Leu Glu Arg His Gln Leu Thr Asp Gly Gln Pro Gly Val Ala
 65           70           75           80
Gly Asp Leu Gly Asn Phe Thr Gly Asn Asp Pro Cys Gly Gly Gly Leu
 85           90           95
Pro Gly Ala Leu Phe Val Ile Val Gln Pro Thr Arg
100           105

```

&lt;210&gt; 1799

&lt;211&gt; 366

&lt;212&gt; DNA

&lt;213&gt; Homo sapiens

&lt;400&gt; 1799

```

acgcgtcgcc tcctgctggg cgggattttc cttgctgtag ttaaccaaac caccggcgctc
60
aataccgctca tgtattacgc gcccaagggt ttggagttcg caggaatgag caccaggcgc
120
tcgattattt cagaggtggc taatggagtc atgtctgtta ttggtgccgc tgcaggcttg
180
tggtcatcgc aacggtttga tcgtcgtcac ctgcttatct tcgagtgcac ggcggtcggt
240
gtgtgtctcc ttggtattgc ggctactttc gggctggcaa ttgctcctca tgtgggtcaa
300
ggggtaccga agtgggcgcc tattctcgtg ctgctcctga tgagtatctt catgcttacc
360
gtgcac
366

```

&lt;210&gt; 1800

&lt;211&gt; 122

&lt;212&gt; PRT

&lt;213&gt; Homo sapiens

&lt;400&gt; 1800

```

Thr Arg Arg Leu Leu Leu Val Gly Ile Phe Leu Ala Val Val Asn Gln
 1           5           10           15
Thr Thr Gly Val Asn Thr Val Met Tyr Tyr Ala Pro Lys Val Leu Glu
 20           25           30
Phe Ala Gly Met Ser Thr Gln Ala Ser Ile Ile Ser Glu Val Ala Asn
 35           40           45
Gly Val Met Ser Val Ile Gly Ala Ala Ala Gly Leu Trp Leu Ile Glu
 50           55           60
Arg Phe Asp Arg Arg His Leu Leu Ile Phe Asp Val Thr Ala Val Gly
 65           70           75           80
Val Cys Leu Leu Gly Ile Ala Ala Thr Phe Gly Leu Ala Ile Ala Pro

```

	85		90		95
His Val Gly Gln Gly Val Pro Lys Trp Ala Pro Ile Leu Val Leu Val					
	100		105		110
Leu Met Ser Ile Phe Met Leu Ile Val His					
	115		120		

&lt;210&gt; 1801

&lt;211&gt; 597

&lt;212&gt; DNA

&lt;213&gt; Homo sapiens

&lt;400&gt; 1801

```

aattttctcct tcggtgacta cttcaagaac gaggccattc agtacgcatg ggagctcgtc
60
actaagccgg cagaacaggg cggattgggt ttcgatcctg ccagcatctg ggtgacggtc
120
cttggacctg ggtttcaccc tgactatccg gagggcgaca ttgaggcgcg cgaggcggtg
180
cgtgctgcgg gtatccctga cgagcagatt cagggtcgct cccttaagga caactactgg
240
catatggggg ttcccgggccc cggcggcccc tgctcggaaa tctacatcga tcgtggccca
300
gcctatggtc ccgacggttg tccagaagca gatgaggacc gttaccttga gatctggaac
360
ctcgtatttc agaccgagga tctctcagcg gtgcgcgcta aagatgacct cgacatcgca
420
ggccccattgc gcagccttaa catcgacact ggtgccggtc tcgaacgtat tgccctacca
480
ctccaggggc tcgacaatat gtaacagact gaccaggtat tccctgtcat tgagaaagcg
540
tccgagatgt cgggcaagcg gtacggcggt cgccacgacg acgacgtccg actacgc
597

```

&lt;210&gt; 1802

&lt;211&gt; 199

&lt;212&gt; PRT

&lt;213&gt; Homo sapiens

&lt;400&gt; 1802

Asn Phe Ser Phe Gly Asp Tyr Phe Lys Asn Glu Ala Ile Gln Tyr Ala					
1	5		10		15
Trp Glu Leu Val Thr Lys Pro Ala Glu Gln Gly Gly Leu Gly Phe Asp					
	20		25		30
Pro Ala Ser Ile Trp Val Thr Val Leu Gly Pro Gly Phe His Pro Asp					
	35		40		45
Tyr Pro Glu Gly Asp Ile Glu Ala Arg Glu Ala Trp Arg Ala Ala Gly					
	50		55		60
Ile Pro Asp Glu Gln Ile Gln Gly Arg Ser Leu Lys Asp Asn Tyr Trp					
	65		70		75
His Met Gly Val Pro Gly Pro Gly Gly Pro Cys Ser Glu Ile Tyr Ile					
	85		90		95
Asp Arg Gly Pro Ala Tyr Gly Pro Asp Gly Gly Pro Glu Ala Asp Glu					
	100		105		110
Asp Arg Tyr Leu Glu Ile Trp Asn Leu Val Phe Glu Thr Glu Asp Leu					

```

          115              120              125
Ser Ala Val Arg Ala Lys Asp Asp Phe Asp Ile Ala Gly Pro Leu Arg
   130              135              140
Ser Leu Asn Ile Asp Thr Gly Ala Gly Leu Glu Arg Ile Ala Tyr Leu
   145              150              155              160
Leu Gln Gly Val Asp Asn Met Tyr Glu Thr Asp Gln Val Phe Pro Val
          165              170              175
Ile Glu Lys Ala Ser Glu Met Ser Gly Lys Arg Tyr Gly Val Arg His
          180              185              190
Asp Asp Asp Val Arg Leu Arg
   195

```

&lt;210&gt; 1803

&lt;211&gt; 708

&lt;212&gt; DNA

&lt;213&gt; Homo sapiens

&lt;400&gt; 1803

```

ccccacaaga tggccgcatc ggtggatggg gaagtgcctg aggaggctac acctaaggac
60
ctcatcctgg cctcatctc cgagatcgcc accggtgggg gacaagggtca tatggtcgag
120
tatcgcgggc aggccatcga gaagatgtcg atggagggtc gcatgacgat ctgcaatatg
180
tcgattgagt ggggagctcg cgtcggcatg gttgcttctg atgagaccac cttcacctac
240
ctcaaggatc gtccgcacgc tccgcgtggt gcacagtggg acaaggctgt cgcgtactgg
300
cgcaactctg gtactgacga cgatgcgacc tttagcgtg agatccatgt ggacgcctcg
360
aatctcgccc ccttcgttac ctggggtacc aaccggggc agggatcccc cctaggcggt
420
gtggtgccgg ccgtcgaaga ctttgaggac gaggtagctc gcagcgcage gtttgagta
480
catggatttg accccgacga gatcggttcc cggtttgctg acatcttttc caataactct
540
gcgaacaacg gcttggtact ggctcaggtt gatcccaagg tcgtcggaga gttgtgggac
600
tttgccgagc agcatcctgg tgacgagctc accctctccc tcgagaatcg gacgattaac
660
cttcggggtc gcacgacctc cccgttccat attgatgacg tcacgcgt
708

```

&lt;210&gt; 1804

&lt;211&gt; 236

&lt;212&gt; PRT

&lt;213&gt; Homo sapiens

&lt;400&gt; 1804

```

Pro Thr Thr Met Ala Val Met Val Asp Gly Glu Val Pro Glu Glu Val
  1              5              10              15
Thr Pro Lys Asp Leu Ile Leu Ala Leu Ile Ser Glu Ile Gly Thr Gly
      20              25              30
Gly Gly Gln Gly His Met Val Glu Tyr Arg Gly Glu Ala Ile Glu Lys

```

66

ctggaaggtt cgatgcgcgt cgtgggatcg ctggtacagt ggctgcgcga caacctcaag  
 720  
 atgttcgaga cgcggccgca aatcgaagcc ctcgccaaca ccgtcgagga caatgggtggc  
 780  
 gcctactctttg tgcgggcctt ctctggcctg ttcgcgcgt actggcgctc gga  
 833

<210> 1806

<211> 277

<212> PRT

<213> Homo sapiens

<400> 1806

Xaa	Ala	Val	Val	Trp	Asp	Lys	Asn	Thr	Gly	Glu	Pro	Val	Tyr	Asn	Ala
1				5					10					15	
Ile	Val	Trp	Gln	Asp	Thr	Arg	Thr	Gln	Lys	Ile	Cys	Asn	Glu	Leu	Ala
			20					25					30		
Gly	Asp	Lys	Gly	Ala	Asp	Arg	Tyr	Lys	Glu	Ile	Cys	Gly	Leu	Gly	Leu
		35						40				45			
Ser	Thr	Tyr	Phe	Ser	Gly	Pro	Lys	Val	Lys	Trp	Ile	Leu	Asp	Asn	Val
	50				55					60					
Glu	Gly	Ala	Arg	Ala	Arg	Ala	Glu	Ala	Gly	Asp	Leu	Leu	Phe	Gly	Asn
	65				70				75					80	
Met	Asp	Thr	Trp	Val	Leu	Trp	Asn	Leu	Thr	Gly	Gly	Thr	Asn	Gly	Gly
			85						90					95	
Val	His	Ile	Thr	Asp	Pro	Thr	Asn	Ala	Ser	Arg	Thr	Met	Leu	Met	Asp
			100					105					110		
Val	Arg	Lys	Leu	Gln	Trp	Asp	Asp	Ser	Met	Cys	Glu	Val	Met	Gly	Ile
		115					120					125			
Pro	Lys	Ser	Met	Leu	Pro	Glu	Ile	Lys	Ser	Ser	Ser	Glu	Ile	Tyr	Gly
		130				135					140				
Tyr	Gly	Arg	Lys	Asn	Gly	Leu	Leu	Ile	Asp	Thr	Pro	Ile	Ser	Gly	Ile
				150					155					160	
Leu	Gly	Asp	Gln	Gln	Ala	Ala	Thr	Phe	Gly	Gln	Ala	Cys	Phe	Gln	Lys
			165					170						175	
Gly	Met	Ala	Lys	Asn	Thr	Tyr	Gly	Thr	Gly	Cys	Phe	Met	Leu	Met	Asn
			180					185					190		
Thr	Gly	Glu	Glu	Ala	Ile	Phe	Ser	Glu	Asn	Gly	Leu	Leu	Thr	Thr	Val
		195				200						205			
Cys	Tyr	Lys	Ile	Gly	Asp	Gln	Pro	Thr	Val	Tyr	Ala	Leu	Glu	Gly	Ser
		210				215					220				
Ile	Ala	Val	Ala	Gly	Ser	Leu	Val	Gln	Trp	Leu	Arg	Asp	Asn	Leu	Lys
				230						235				240	
Met	Phe	Glu	Thr	Ala	Pro	Gln	Ile	Glu	Ala	Leu	Ala	Asn	Thr	Val	Glu
				245				250						255	
Asp	Asn	Gly	Gly	Ala	Tyr	Phe	Val	Pro	Ala	Phe	Ser	Gly	Leu	Phe	Ala
		260						265						270	
Pro	Tyr	Trp	Arg	Pro											
				275											

<210> 1807

<211> 420

<212> DNA

<213> Homo sapiens

<400> 1807  
 nnntatcggc aaggtggctcg aaatggctct tgactatgtc aacggtgaca cgtgcgccgc  
 60  
 gaccgcccc ttcatttgtc gtttgacgtc gacgcgatgg accctagcgt gggccccgagc  
 120  
 acaggcacac cgggtgcgtgg tgggtctcaca ttccgagaag gccactacat atgcgaggcg  
 180  
 gtagctgaga ccggctcgtt ggtggctatg gatatggtag aagtcaaccc ccatcttgaa  
 240  
 aagcatgcgg ctgagcagac gatcgccgtg ggttggtccc tcattcgttc ggcgctgggg  
 300  
 gagacgcttc tgtaatgggt gcatgatggg ccgggtgggtc atagccatgc atagacactc  
 360  
 cgggcgctga tatgatgagt gacatagcac gtacgataaa tctcggtttt gagcacgcgt  
 420

<210> 1808

<211> 88

<212> PRT

<213> Homo sapiens

<400> 1808

His	Val	Arg	Arg	Asp	Arg	Pro	Ile	His	Leu	Ser	Phe	Asp	Val	Asp	Ala
1				5					10				15		
Met	Asp	Pro	Ser	Val	Ala	Pro	Ser	Thr	Gly	Thr	Pro	Val	Arg	Gly	Gly
			20					25					30		
Leu	Thr	Phe	Arg	Glu	Gly	His	Tyr	Ile	Cys	Glu	Ala	Val	Ala	Glu	Thr
		35					40					45			
Gly	Ser	Leu	Val	Ala	Met	Asp	Met	Val	Glu	Val	Asn	Pro	His	Leu	Glu
		50				55					60				
Lys	His	Ala	Ala	Glu	Gln	Thr	Ile	Ala	Val	Gly	Cys	Ser	Leu	Ile	Arg
65					70				75					80	
Ser	Ala	Leu	Gly	Glu	Thr	Leu	Leu								
							85								

<210> 1809

<211> 340

<212> DNA

<213> Homo sapiens

<400> 1809

nnaccgggtga tcgcacgggt gaggctcggc gcgatgcgcg tggctgacct tcgccatcgc  
 60  
 cagaccgggt tcacgcatgc gtatcgccctc gggcatggca gcctcctcgt gatgcggggc  
 120  
 cccacccagg ccgaatggca gcacgcgtg ccgaaagcgc cgggtgtgca gggcgagcgc  
 180  
 gtgaacctga cggttcggcg cgtgatgccg gtcggtatgg gccggtaaca accggcgctg  
 240  
 ccgaggtgcc cggatcgccg ggcgattcgc gccccgtttt cgcgattcat gcgcgatcga  
 300  
 tacgggcagg cggtcgcatg tgccgcacgt tgccgcacgn  
 340

<210> 1810  
 <211> 75  
 <212> PRT  
 <213> Homo sapiens

<400> 1810  
 Xaa Pro Val Ile Ala Ser Val Ser Leu Gly Ala Met Arg Val Phe Asp  
 1 5 10 15  
 Leu Arg His Arg Gln Thr Gly Val Thr His Ala Tyr Arg Leu Gly His  
 20 25 30  
 Gly Ser Leu Leu Val Met Arg Gly Pro Thr Gln Ala Glu Trp Gln His  
 35 40 45  
 Arg Val Pro Lys Ala Pro Gly Val Gln Gly Glu Arg Val Asn Leu Thr  
 50 55 60  
 Phe Arg Arg Val Met Pro Val Gly Met Gly Arg  
 65 70 75

<210> 1811  
 <211> 500  
 <212> DNA  
 <213> Homo sapiens

<400> 1811  
 nnacgcgtgc taggaatagc catggactca tcatcagata catgctggat ttatacttca  
 60  
 ctgggtggat tgtatgagct gctcgtaaaa gatgaggctc gcgatatgtg gcatttgttg  
 120  
 ctgaaacggt gcgactttga gaaggcacta acattttgtc gtgatgagac gtgtcggaag  
 180  
 cagggtactgg aaaagaaggc cgaatgcactg ctacacgcag gtcagctcat ggaggccgctc  
 240  
 gagtgctatg ctcaggccca gacacgggcc tttgaacagg ttgtgctttc tttgatggac  
 300  
 gtctgtgccc acaaggcatt gcgtcgatat gtcagactgc gtctcgacaa gatgccgaaa  
 360  
 caagctcgcg tgccctcgtct catgctggct acttggtctca tgaattgta tgtggccgcc  
 420  
 attcaagcgc atgaaccac ctccgaacat tatcagacac ttttgctgga agcccaggag  
 480  
 acacttgagc ggcacatcatga  
 500

<210> 1812  
 <211> 166  
 <212> PRT  
 <213> Homo sapiens

<400> 1812  
 Xaa Arg Val Leu Gly Ile Ala Met Asp Ser Ser Ser Asp Thr Cys Trp  
 1 5 10 15  
 Ile Tyr Thr Ser Leu Gly Gly Leu Tyr Glu Leu Leu Val Lys Asp Glu  
 20 25 30  
 Ala Arg Asp Met Trp His Leu Leu Leu Lys Arg Cys Asp Phe Glu Lys

```

      35              40              45
Ala Leu Thr Phe Cys Arg Asp Glu Thr Cys Arg Lys Gln Val Leu Glu
  50              55              60
Lys Lys Gly Asp Ala Leu Leu His Ala Gly Gln Leu Met Glu Ala Val
  65              70              75              80
Glu Cys Tyr Ala Gln Ala Gln Thr Pro Ala Phe Glu Gln Val Val Leu
      85              90              95
Ser Leu Met Asp Val Cys Ala Asp Lys Ala Leu Arg Arg Tyr Val Arg
      100              105              110
Leu Arg Leu Asp Lys Met Pro Lys Gln Ala Arg Val Pro Arg Leu Met
      115              120              125
Leu Ala Thr Trp Leu Ile Glu Leu Tyr Val Ala Ala Ile Gln Ala His
      130              135              140
Glu Pro Thr Ser Glu His Tyr Gln Thr Leu Leu Leu Glu Ala Gln Glu
  145              150              155              160
Thr Leu Glu Arg His His
      165

```

&lt;210&gt; 1813

&lt;211&gt; 426

&lt;212&gt; DNA

&lt;213&gt; Homo sapiens

&lt;400&gt; 1813

```

tctagagccg ttgtgatcgg tatccatggg tggatggggg tcatctcgat ggaggagtgt
  60
gtcctgaggg gtggcagtga cctggtaggg gtgcctgcgg cgctgcggct tgcgatcgct
  120
ggttctcggg gatgactctc ggtgaatat agatctgcta agacgtcatt agattcgctt
  180
ggcgcttggt tgggaacggg tgtgaagcag ccttctgatg gatgtatttt tgcgttggtg
  240
aataagggtt caatattaat tgaatatggc gctagatgct ggtttaggat cagttgacgt
  300
ccgctgtaga tcctccctat ggctattctg gggccaggcg cttgccagc tggccatcgc
  360
aacaatgggt tggcgaaggg ttatgaggtg agtatggctg agcaagtctg tggacaggcg
  420
tctaca
  426

```

&lt;210&gt; 1814

&lt;211&gt; 108

&lt;212&gt; PRT

&lt;213&gt; Homo sapiens

&lt;400&gt; 1814

```

Met Thr Ile Gly Arg Ile Tyr Ser Gly Arg Gln Leu Ile Leu Asn Gln
  1              5              10              15
His Leu Ala Pro Tyr Ser Ile Asn Ile Glu Thr Leu Phe Asn Asn Ala
      20              25              30
Lys Ile His Pro Ser Glu Gly Cys Phe Thr Pro Val Pro Asn Gln Ala
      35              40              45
Pro Ser Glu Ser Asn Asp Val Leu Ala Asp Leu Tyr Ser Ser Glu Ser

```

```

      50              55              60
His Pro Arg Glu Pro Ala Ile Ala Ser Arg Asp Ala Ala Gly Thr Pro
65              70              75              80
Thr Arg Ser Leu Pro Pro Leu Arg Thr His Ser Ser Ile Glu Met Asn
      85              90              95
Pro Ile Gln Pro Trp Ile Pro Ile Thr Thr Ala Leu
      100              105

```

<210> 1815  
 <211> 303  
 <212> DNA  
 <213> Homo sapiens

```

<400> 1815
ggcgccacaca tggctacgct cgcaccgcgg cacaaggtaa gccgtagcgg cgggatcgag
60
cgccaggcgg cgcattctcgg catggagcgc gatcagttcg gccatcatcg cgctcgtcggg
120
cgtgccgcatc tcgagggggca acgcccgcgc gagccgcgaa gccagatcgg gcacgcgcgat
180
ccgcccagcca tcggcaaatt cgcgagtgat gacgagcaag ggccgcctgg tctcctgcgc
240
ccggttccagc cagtgggaaca cgttcgcctc gggcagacgg gcggcatcgg cgatcacggg
300
acc
303

```

<210> 1816  
 <211> 98  
 <212> PRT  
 <213> Homo sapiens

```

<400> 1816
Met Ala Thr Leu Ala Pro Arg His Lys Val Ser Arg Ser Gly Gly Ile
1      5      10      15
Glu Arg Gln Ala Ala His Leu Gly Met Glu Arg Asp Gln Phe Gly His
      20      25      30
His Arg Val Val Gly Arg Ala Asp Leu Glu Gly Gln Arg Arg Ala Glu
      35      40      45
Pro Arg Ser Gln Ile Gly Gln Arg Asp Pro Pro Ala Ile Gly Lys Phe
      50      55      60
Ala Ser Asp Asp Glu Gln Gly Pro Pro Gly Leu Arg Pro Val Pro
65      70      75      80
Ala Val Glu His Val Arg Leu Gly Gln Thr Gly Gly Ile Gly Asp His
      85      90      95
Gly Thr

```

<210> 1817  
 <211> 413  
 <212> DNA  
 <213> Homo sapiens

<400> 1817

nncagcttgc aagaccgcgg ccacacagtg tacatcttaa catcacattt cgaatgcgtcg  
 60  
 catgcgcttg agcccacacg cgaatggcaca cttcagggtca ttcacgcaaa gacatggatc  
 120  
 ccgcgcctct tatttcacat gctgcatctg cgaatggccat tcgcagcagc tttttctctt  
 180  
 gtgatgcagg tcgtggtagc agcgtatgga tcgtcactcg cagcgcactt gccgcagtgc  
 240  
 tacagggcgt gacgcatgtc ccgtcaaaact cgtctccaga cgtgtttgtt attgaccaac  
 300  
 ttccagcagc gataccccta atcaaaactcc tgtgtgggag cgtgtgcatg tactactgtc  
 360  
 atttccctga caaagaaatc agcgtgctgc tggctcgaca gcgaggcacg cgt  
 413

<210> 1818

<211> 83

<212> PRT

<213> Homo sapiens

<400> 1818

Xaa	Ser	Leu	Gln	Asp	Arg	Gly	His	Thr	Val	Tyr	Ile	Leu	Thr	Ser	His
1				5					10					15	
Phe	Asp	Ala	Ser	His	Ala	Phe	Glu	Pro	Thr	Arg	Asp	Gly	Thr	Leu	Gln
			20					25					30		
Val	Ile	His	Ala	Lys	Thr	Trp	Ile	Pro	Arg	Ser	Leu	Phe	His	Met	Leu
			35				40					45			
His	Leu	Arg	Trp	Pro	Phe	Ala	Ala	Val	Phe	Ser	Leu	Val	Met	Gln	Val
	50				55						60				
Val	Val	Ala	Ala	Tyr	Gly	Ser	Ser	Leu	Ala	Arg	His	Leu	Pro	His	Val
65					70					75				80	
Tyr	Arg	Ala													

<210> 1819

<211> 343

<212> DNA

<213> Homo sapiens

<400> 1819

ggatccaaga gtggggcatc aggaacatgc catggttgct gtggtgctgg aatgagaaca  
 60  
 atcacaaagc agataggcct tggcatgcat caacagatga acactgtttg ccttgaatgc  
 120  
 aaaggatcag gtgagatcat aagtgcacag gacaaatgcc caagctgtaa aggaacaaca  
 180  
 gtatgccagg agaagaaggt gttagaggtt catgtggaga aaggaatgca acataaccaa  
 240  
 aagattgtat tcagggttca ggctgatgaa gctcctgata cgggtacagg agacattggt  
 300  
 tttgtcttgc aacttaaaga ccatccaaaa ttttaagagga tgt  
 343

<210> 1820

<211> 114  
 <212> PRT  
 <213> Homo sapiens

<400> 1820  
 Gly Ser Lys Ser Gly Ala Ser Gly Thr Cys His Gly Cys Arg Gly Ala  
 1 5 10 15  
 Gly Met Arg Thr Ile Thr Arg Gln Ile Gly Leu Gly Met Ile Gln Gln  
 20 25 30  
 Met Asn Thr Val Cys Pro Glu Cys Lys Gly Ser Gly Glu Ile Ile Ser  
 35 40 45  
 Asp Lys Asp Lys Cys Pro Ser Cys Lys Gly Asn Lys Val Val Gln Glu  
 50 55 60  
 Lys Lys Val Leu Glu Val His Val Glu Lys Gly Met Gln His Asn Gln  
 65 70 75 80  
 Lys Ile Val Phe Gln Gly Gln Ala Asp Glu Ala Pro Asp Thr Gly Thr  
 85 90 95  
 Gly Asp Ile Val Phe Val Leu Gln Leu Lys Asp His Pro Lys Phe Lys  
 100 105 110  
 Arg Met

<210> 1821  
 <211> 285  
 <212> DNA  
 <213> Homo sapiens

<400> 1821  
 aagcttgagt tcagcaagat ctggaggct attaaggcaa acttcaacga caagttcga  
 60  
 gaggtcggga agaagtgggg aggtggcatc atgggatcca agtcgcaggc caagaccaag  
 120  
 gccccgggaaa agttgctcgc caaggaggcc gccacgcgga tgacctagat tgtctactgc  
 180  
 tgtgtctgcc ctgtagtttg acggggaaga actgatgaac tcgtattgtg gttttccgaa  
 240  
 tctagtttca tatgtttctg tccaccagac catgtttaga agctt  
 285

<210> 1822  
 <211> 55  
 <212> PRT  
 <213> Homo sapiens

<400> 1822  
 Lys Leu Glu Phe Ser Lys Ile Leu Glu Ala Ile Lys Ala Asn Phe Asn  
 1 5 10 15  
 Asp Lys Phe Asp Glu Val Gly Lys Lys Trp Gly Gly Gly Ile Met Gly  
 20 25 30  
 Ser Lys Ser Gln Ala Lys Thr Lys Ala Arg Glu Lys Leu Leu Ala Lys  
 35 40 45  
 Glu Ala Ala Gln Arg Met Thr  
 50 55

<210> 1823  
 <211> 387  
 <212> DNA  
 <213> Homo sapiens

<400> 1823  
 ngttggctgc tgttgctggg cgttctgtcc ctgacgggct gcgcccgttc cgatgcgtg  
 60  
 tggggcgctgg tcgataagct ctgcatggcc aactatcagc aaaagcgcca tccggccccg  
 120  
 tgtgagcaga tttatatgcc gcagggtaaa gcgcagggt ttagcgtgct gcaaaacccg  
 180  
 cgttatccct atcatttcct tctgggtccg acggcgccgc ttcccgcat tgaaagcccc  
 240  
 ctgctgctgg ccggagagcg aacggactat ttggctatg catggctgat gcgttacccg  
 300  
 ctggccgccc agtatggcgg gccgggtccc gacgacaggc tgggcatggc gatcaactcc  
 360  
 gcttacggcc gcagccagaa ccaattg  
 387

<210> 1824  
 <211> 129  
 <212> PRT  
 <213> Homo sapiens

<400> 1824  
 Xaa Trp Leu Leu Leu Leu Gly Val Leu Ser Leu Thr Gly Cys Ala Arg  
 1 5 10 15  
 Ser Asp Ala Leu Trp Gly Val Val Asp Lys Leu Cys Met Ala Asn Tyr  
 20 25 30  
 Gln Gln Lys Arg Asp Pro Ala Pro Cys Glu Gln Ile Tyr Met Pro Gln  
 35 40 45  
 Gly Lys Ala Gln Gly Phe Ser Val Leu Gln Asn Pro Arg Tyr Pro Tyr  
 50 55 60  
 His Phe Ile Leu Val Pro Thr Ala Pro Leu Ser Gly Ile Glu Ser Pro  
 65 70 75 80  
 Leu Leu Leu Ala Gly Glu Arg Thr Asp Tyr Phe Gly Tyr Ala Trp Leu  
 85 90 95  
 Met Arg Tyr Arg Leu Ala Ala Glu Tyr Gly Gly Pro Val Pro Asp Asp  
 100 105 110  
 Arg Leu Gly Met Ala Ile Asn Ser Ala Tyr Gly Arg Ser Gln Asn Gln  
 115 120 125  
 Leu

<210> 1825  
 <211> 413  
 <212> DNA  
 <213> Homo sapiens

<400> 1825  
 gtgcacggac gaccgcgcac agggactcgt gtgccgcgca tgggacgacg gcgatgcgtg  
 60

tgcgtgcata ccgctgctct gccaggtcgt gcgtgcgatt gtcgccgaca catcggcggc  
 120  
 ttggcacgctc gtgattgggc gccatggcac catgtcgag gccgacatgg acatgtgggc  
 180  
 gtgcgtgcctc gatacgcgcg acccttcctg ctctcggtgg gccctgtgtg cctggagcgc  
 240  
 gatgcctggc ctacgggcac gcgatgcac ggtggtctac ctgtcggaca tgccgctggg  
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 413

&lt;210&gt; 1826

&lt;211&gt; 124

&lt;212&gt; PRT

&lt;213&gt; Homo sapiens

&lt;400&gt; 1826

Met Gly Arg Arg Cys Val Cys Val His Thr Ala Ala Leu Ala Gly  
 1 5 10 15  
 Arg Ala Cys Asp Cys Arg Arg His Ile Gly Gly Leu Ala Arg Asp  
 20 25 30  
 Trp Ala Pro Arg His His Val Ala Gly Arg His Gly His Val Gly Val  
 35 40 45  
 Val Pro Arg Tyr Ala Arg Pro Phe Leu Leu Ser Val Gly Leu Val Cys  
 50 55 60  
 Leu Glu Arg Asp Ala Trp Pro Thr Gly Thr Arg Cys Ile Gly Gly Leu  
 65 70 75 80  
 Pro Val Gly His Ala Ala Gly Ser Gly Leu Arg Cys Val Ala Asp Pro  
 85 90 95  
 Arg Ala Ser Leu Gly Val Met Cys Leu Pro Ala Pro Met Pro Phe Ile  
 100 105 110  
 Ser Cys Ser Tyr Val Thr Trp Leu Ile Ser Thr Arg  
 115 120

&lt;210&gt; 1827

&lt;211&gt; 345

&lt;212&gt; DNA

&lt;213&gt; Homo sapiens

&lt;400&gt; 1827

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 60  
 ctgttcgata cgcgctgggt gccggagttc accgacctgt tgcggcaagc cttcgaagcc  
 120  
 gccacactgc aggcgcaagc gcagggcaag gccaaaccga cgatctctgc ccgcaagctg  
 180  
 tacgcccga tgatgcgtac gctggccgag accggcaagc gctggatgac cttcaaggac  
 240  
 aagtgcgaac gcgccagcaa ccagaccctg cgtccgggca acgtgatcca cctgtccaac  
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 ctgtgcaccg aaatcctgga agtcaactcc aacgatgaaa ccgcg  
 345

<210> 1828  
 <211> 115  
 <212> PRT  
 <213> Homo sapiens

<400> 1828  
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 Gln Glu Trp Ser Leu Phe Asp Pro Arg Val Val Pro Glu Thr Asp  
 20 25 30  
 Leu Phe Gly Glu Ala Phe Glu Ala Ala Tyr Leu Gln Ala Glu Ala Gln  
 35 40 45  
 Gly Lys Ala Asn Arg Thr Ile Ser Ala Arg Lys Leu Tyr Ala Arg Met  
 50 55 60  
 Met Arg Thr Leu Ala Glu Thr Gly Asn Gly Trp Met Thr Phe Lys Asp  
 65 70 75 80  
 Lys Cys Asn Arg Ala Ser Asn Gln Thr Leu Arg Pro Gly Asn Val Ile  
 85 90 95  
 His Leu Ser Asn Leu Cys Thr Glu Ile Leu Glu Val Thr Ser Asn Asp  
 100 105 110  
 Glu Thr Ala  
 115

<210> 1829  
 <211> 4457  
 <212> DNA  
 <213> Homo sapiens

<400> 1829  
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 180  
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 240  
 gcatcagtta catctcaatt agaaattgaa gctatgcccc caaagtgcag tgatatagat  
 300  
 ccagatgaag agacgattaa aattgaagat gactccattc gacagagtca gaatgctttg  
 360  
 ctgagtaatg aaagttctca gtttctgtct gtgtctgcag agggaggcca tgagtgtgtg  
 420  
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 480  
 catgactctt ctgttgcttc catagaaacc aaatctagac aaaggagtca cagtagtatt  
 540  
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 gagtcaggta aacaaccagg agcaaaacct aaagtaaaac ttgccagaaa aaaggatgat  
 660  
 gacaagaaaa aatcttcaaa tgaaaaactc aaacaaacca gtgtattctt cagtgatggg  
 720

ctggatttag agaactggta tagctgtgga gagggagaca tttctgaaat tgagagtgc  
780  
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840  
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900  
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aataatgc atactctca gttgtctctc cttcagaatc tattggccag acaccggatt  
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1980  
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2340

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2520  
aaagactcta tacaactgag tcttcagct ccagggcagt ttcttatact tggggttctg  
2580  
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2640  
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 4260  
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 4440  
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 4457

&lt;210&gt; 1830

&lt;211&gt; 1377

&lt;212&gt; PRT

&lt;213&gt; Homo sapiens

&lt;400&gt; 1830

Ile Pro Met Val Val Ser Asp Phe Asp Leu Pro Asp Gln Gln Ile Glu  
 1 5 10 15  
 Ile Leu Gln Ser Ser Asp Ser Gly Cys Ser Gln Ser Ser Ala Gly Asp  
 20 25 30  
 Asn Leu Ser Tyr Glu Val Asp Pro Glu Thr Val Asn Ala Gln Glu Asp  
 35 40 45  
 Ser Gln Met Pro Lys Glu Ser Ser Pro Asp Asp Val Gln Gln Val  
 50 55 60  
 Val Phe Asp Leu Ile Cys Lys Val Val Ser Gly Leu Glu Val Glu Ser  
 65 70 75 80  
 Ala Ser Val Thr Ser Gln Leu Glu Ile Glu Ala Met Pro Pro Lys Cys  
 85 90 95  
 Ser Asp Ile Asp Pro Asp Glu Glu Thr Ile Lys Ile Glu Asp Asp Ser  
 100 105 110  
 Ile Arg Gln Ser Gln Asn Ala Leu Leu Ser Asn Glu Ser Ser Gln Phe  
 115 120 125  
 Leu Ser Val Ser Ala Glu Gly Gly His Glu Cys Val Ala Asn Gly Ile  
 130 135 140  
 Ser Arg Asn Ser Ser Ser Pro Cys Ile Ser Gly Thr Thr His Thr Leu  
 145 150 155 160  
 His Asp Ser Ser Val Ala Ser Ile Glu Thr Lys Ser Arg Gln Arg Ser  
 165 170 175  
 His Ser Ser Ile Gln Phe Ser Phe Lys Glu Lys Leu Ser Glu Lys Val  
 180 185 190  
 Ser Glu Lys Glu Thr Ile Val Lys Glu Ser Gly Lys Gln Pro Gly Ala  
 195 200 205  
 Lys Pro Lys Val Lys Leu Ala Arg Lys Lys Asp Asp Asp Lys Lys Lys  
 210 215 220  
 Ser Ser Asn Glu Lys Leu Lys Gln Thr Ser Val Phe Phe Ser Asp Gly

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225                230                235                240
Leu Asp Leu Glu Asn Trp Tyr Ser Cys Gly Glu Gly Asp Ile Ser Glu
                245                250                255
Ile Glu Ser Asp Met Gly Ser Pro Gly Ser Arg Lys Ser Pro Asn Phe
                260                265                270
Asn Ile His Pro Leu Tyr Gln His Val Leu Leu Tyr Leu Gln Leu Tyr
                275                280                285
Asp Ser Ser Arg Thr Leu Tyr Ala Phe Ser Ala Ile Lys Ala Ile Leu
                290                295                300
Lys Thr Asn Pro Ile Ala Phe Val Asn Ala Ile Ser Thr Thr Ser Val
305                310                315                320
Asn Asn Ala Tyr Thr Pro Gln Leu Ser Leu Leu Gln Asn Leu Leu Ala
                325                330                335
Arg His Arg Ile Ser Val Met Gly Lys Asp Phe Tyr Ser His Ile Pro
                340                345                350
Val Asp Ser Asn His Asn Phe Arg Ser Ser Met Tyr Ile Glu Ile Leu
                355                360                365
Ile Ser Leu Cys Leu Tyr Tyr Met Arg Ser His Tyr Pro Thr His Val
370                375                380
Lys Val Thr Ala Gln Asp Leu Ile Gly Asn Arg Asn Met Gln Met Met
385                390                395                400
Ser Ile Glu Ile Leu Thr Leu Leu Phe Thr Glu Leu Ala Lys Val Ile
                405                410                415
Glu Ser Ser Ala Lys Gly Phe Pro Ser Phe Ile Ser Asp Met Leu Ser
                420                425                430
Lys Cys Lys Val Gln Lys Val Ile Leu His Cys Leu Leu Ser Ser Ile
                435                440                445
Phe Ser Ala Gln Lys Trp His Ser Glu Lys Met Ala Gly Lys Asn Leu
450                455                460
Val Ala Val Glu Glu Gly Phe Ser Glu Asp Ser Leu Ile Asn Phe Ser
465                470                475                480
Glu Asp Glu Phe Asp Asn Gly Ser Thr Leu Gln Ser Gln Leu Leu Lys
                485                490                495
Val Leu Gln Arg Leu Ile Val Leu Glu His Arg Val Met Thr Ile Pro
                500                505                510
Glu Glu Asn Glu Thr Gly Phe Asp Phe Val Val Ser Asp Leu Glu His
515                520                525
Ile Ser Pro His Gln Pro Met Thr Ser Leu Gln Tyr Leu His Ala Gln
530                535                540
Pro Ile Thr Cys Gln Gly Met Phe Leu Cys Ala Val Ile Arg Ala Leu
545                550                555                560
His Gln His Cys Ala Cys Lys Met His Pro Gln Trp Ile Gly Leu Ile
                565                570                575
Thr Ser Thr Leu Pro Tyr Met Gly Lys Val Leu Gln Arg Val Val Val
580                585                590
Ser Val Thr Leu Gln Leu Cys Arg Asn Leu Asp Asn Leu Ile Gln Gln
595                600                605
Tyr Lys Tyr Glu Thr Gly Leu Ser Asp Ser Arg Pro Leu Trp Met Ala
610                615                620
Ser Ile Ile Pro Pro Asp Met Ile Leu Thr Leu Leu Glu Gly Ile Thr
625                630                635                640
Ala Ile Ile His Tyr Cys Leu Leu Asp Pro Thr Thr Gln Tyr His Gln
                645                650                655
Leu Leu Val Ser Val Asp Gln Lys His Leu Phe Glu Ala Arg Ser Gly

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[illegible]

1090 1095 1100  
 Tyr Gln Lys Tyr Leu Pro Asp Ile Gln Glu Arg Leu Val Glu Ser Leu  
 1105 1110 1115 1120  
 Arg Leu Pro Gln Val Pro Thr Leu His Ser Gln Val Phe Leu Phe Phe  
 1125 1130 1135  
 Arg Val Leu Leu Leu Arg Met Ser Pro Gln His Leu Thr Ser Leu Trp  
 1140 1145 1150  
 Pro Thr Met Ile Thr Glu Leu Val Gln Val Phe Leu Leu Met Glu Gln  
 1155 1160 1165  
 Glu Leu Thr Ala Asp Glu Asp Ile Ser Arg Thr Ser Gly Pro Ser Val  
 1170 1175 1180  
 Ala Gly Leu Glu Thr Thr Tyr Thr Gly Gly Asn Gly Phe Ser Thr Ser  
 1185 1190 1195 1200  
 Tyr Asn Ser Gln Arg Trp Leu Asn Leu Tyr Leu Ser Ala Cys Lys Phe  
 1205 1210 1215  
 Leu Asp Leu Ala Leu Ala Leu Pro Ser Glu Asn Leu Pro Gln Phe Gln  
 1220 1225 1230  
 Met Tyr Arg Trp Ala Phe Ile Pro Glu Ala Ser Asp Asp Ser Gly Leu  
 1235 1240 1245  
 Glu Val Arg Arg Gln Gly Ile His Gln Arg Glu Phe Lys Pro Tyr Val  
 1250 1255 1260  
 Val Arg Leu Ala Lys Leu Leu Arg Lys Arg Ala Lys Lys Asn Pro Glu  
 1265 1270 1275 1280  
 Glu Asp Asn Ser Gly Arg Thr Leu Gly Trp Glu Pro Gly His Leu Leu  
 1285 1290 1295  
 Leu Thr Ile Cys Thr Val Arg Ser Met Glu Gln Leu Leu Pro Phe Phe  
 1300 1305 1310  
 Asn Val Leu Ser Gln Val Phe Asn Ser Lys Val Thr Ser Arg Cys Gly  
 1315 1320 1325  
 Gly His Ser Gly Ser Pro Ile Leu Tyr Ser Asn Ala Phe Pro Asn Lys  
 1330 1335 1340  
 Asp Met Lys Leu Glu Asn His Lys Pro Cys Ser Ser Lys Ala Arg Gln  
 1345 1350 1355 1360  
 Lys Ile Glu Glu Met Val Glu Lys Asp Phe Leu Glu Gly Met Ile Lys  
 1365 1370 1375  
 Thr

<210> 1831  
 <211> 508  
 <212> DNA  
 <213> Homo sapiens

<400> 1831  
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 120  
 atcctggagg ctcgaccttc aggtggcaaa accttttacc tgcgctatca cgacagccac  
 180  
 ggcaagctgc gccaatgcaa gatcggtgat gctgctgcgg tcagctacga caaggccg  
 240  
 cagaaggcca tgcggttcg ttggaagggt gaatgggggg gcaatccatt ggaggagcgc  
 300

caagccttgc gtgcggtacc gaccctggcc gagttcatcc gcgagacctg tgtgccgcac  
 360  
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 420  
 ccgcgctttg gagccaagca cctggagcaa atcacgacca acatgctggc cgaggctcac  
 480  
 caggatctgc gcacgaaggg ctacgcgt  
 508

<210> 1832  
 <211> 169  
 <212> PRT  
 <213> Homo sapiens

<400> 1832  
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 Phe Val Arg Glu Ala Val Cys Pro Pro Gly Lys Ser Lys Val Asp Tyr  
 20 25 30  
 Tyr Asp Asn Ala Leu Lys Gly Phe Ile Leu Glu Ala Arg Pro Ser Gly  
 35 40 45  
 Gly Lys Thr Phe Tyr Leu Arg Tyr His Asp Ser His Gly Lys Leu Arg  
 50 55 60  
 Gln Cys Lys Ile Gly Asp Ala Ala Val Ser Tyr Asp Lys Ala Arg  
 65 70 75 80  
 Gln Lys Ala Met Arg Leu Arg Trp Lys Val Glu Trp Gly Gly Asn Pro  
 85 90 95  
 Leu Glu Glu Arg Gln Ala Leu Arg Ala Val Pro Thr Leu Ala Glu Phe  
 100 105 110  
 Ile Arg Glu Thr Tyr Val Pro His Ile His Leu His Arg Arg Asn Phe  
 115 120 125  
 Gln Ser Thr Leu Ser Phe Leu Lys Cys His Val Leu Pro Arg Phe Gly  
 130 135 140  
 Ala Lys His Leu Asp Glu Ile Thr Thr Asn Met Leu Ala Glu Ala His  
 145 150 155 160  
 Gln Asp Leu Arg Thr Lys Gly Tyr Ala  
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<210> 1833  
 <211> 430  
 <212> DNA  
 <213> Homo sapiens

<400> 1833  
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 180  
 gcatcaccag gttgaaaccg atgatccacg ccgcgatgct ttctcggcgc gggtttggca  
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 300

acatctccgg cgctcctgct gtcaggcgct gaaggtatcg aaagtcatgc gccgtgacaa  
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 430

<210> 1834

<211> 122

<212> PRT

<213> Homo sapiens

<400> 1834

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Arg	Arg	Ala	Ala	Ala	Lys	Gly	Arg	Arg	Ser	Val	Ala	Gln	Ser	Gly	
		20					25				30				
Asp	Asp	Arg	Val	Glu	Gln	Arg	Tyr	Ser	Ser	Gln	Arg	Ala	Asn	Gln	Gln
	35					40					45				
His	His	Gln	Val	Glu	Thr	Asp	Asp	Pro	Arg	Arg	Asp	Ala	Phe	Ser	Ala
	50				55					60					
Arg	Val	Trp	Gln	Arg	Leu	Gly	Leu	Gly	Phe	Pro	Ala	Phe	Arg	Arg	Arg
65				70				75						80	
Pro	Ala	Ile	Leu	Glu	Ile	Asp	Glu	His	Leu	Arg	Arg	Ser	Cys	Cys	Gln
			85				90						95		
Ala	Leu	Lys	Val	Ser	Lys	Val	Met	Arg	Arg	Asp	Lys	Gly	Arg	Ser	Ala
			100				105						110		
Thr	Gln	Glu	Pro	Lys	Arg	Arg	Arg	Leu	Gln						
	115						120								

<210> 1835

<211> 677

<212> DNA

<213> Homo sapiens

<400> 1835

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 420  
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 480  
 gatcaaccag ttttgccaga cgagggcagg catcagcact acctcagtgt gtgagggccca  
 540

gacgcgcaac cccagcccca ttatgcgcag tctgctcatc aatgcaagca cccgggtgtc  
 600  
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 660  
 cgcgggccacc gccgcgg  
 677

<210> 1836  
 <211> 140  
 <212> PRT  
 <213> Homo sapiens

<400> 1836  
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 His Phe Ser Pro Pro Gly Pro Gly Ser Gly Pro Pro Ala Gly Pro  
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 35 40 45  
 Pro Ser Gly Tyr Pro Ala Thr Pro Gly Thr Val Pro Pro Ser Glu Pro  
 50 55 60  
 Pro Ala Ala Ser Gly Pro Gly Pro Pro Ser Ala His Gly Pro Asn Pro  
 65 70 75 80  
 Gly Leu Gly Pro Pro Ser Gly Pro Gly Ser Pro Gly Ser Pro Ala Pro  
 85 90 95  
 Pro Gln Ser Leu Ala Ala Trp Arg Pro Glu Asp Ala Arg Leu Arg Cys  
 100 105 110  
 Pro Pro Glu Cys Asp Arg Val Tyr Leu Asn Tyr Pro Pro Phe Asn Gly  
 115 120 125  
 Gly His Ser Ala Ala Gln Pro Ala Ser Gly Pro Glu  
 130 135 140

<210> 1837  
 <211> 564  
 <212> DNA  
 <213> Homo sapiens

<400> 1837  
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 120  
 attgctgcgg acgtcaaaca aacctgggcy tgggaccac aggatctgac gattgtctca  
 180  
 acttctgctg atcacgacca taacctcga tatgcagtac agcatttcgg cgcaagcccc  
 240  
 accccgatcc agtaaccttc gataacgcga aagccggcac cccacataac tcggntgtac  
 300  
 accgaagtcc ctgccaaagt tccatccgac ataggggagt taactaacgg aattatcaag  
 360  
 gggaaatcta ccccgtaac caaggccatc gcgattcaaa actggcttcg tgacagcgct  
 420  
 cgattccatt acgacatcaa cgcacccgaa ggtgacggct atcaggtact ggaaaacttc  
 480

ctgctgcaca cccaccgcgg ttattgcac ctttcgcgg cgtcaatggc actcatggca  
540

cgacttgaag gtattccgac acgc  
564

<210> 1838

<211> 84

<212> PRT

<213> Homo sapiens

<400> 1838

Xaa	Leu	Glu	His	Ser	Ala	Pro	Glu	Ser	Val	Pro	Gly	Leu	Phe	Gly	Pro
1				5					10					15	
Ser	Arg	Thr	Arg	Thr	Val	Asp	Ile	Asn	Ile	Thr	Gly	Phe	Ser	Ser	Gln
			20					25					30		
Tyr	Leu	Pro	Ala	Pro	Tyr	Gly	Pro	Ile	Ala	Ala	Asp	Val	Lys	Gln	Thr
			35				40					45			
Trp	Ala	Trp	Asp	Pro	Gln	Asp	Leu	Thr	Ile	Val	Ser	Thr	Ser	Ala	Asp
			50			55				60					
His	Asp	His	Asn	Leu	Arg	Tyr	Ala	Val	Gln	His	Phe	Gly	Ala	Ser	Pro
65					70				75					80	
Thr	Pro	Ile	Gln												

<210> 1839

<211> 300

<212> DNA

<213> Homo sapiens

<400> 1839

ncaatcaggc tgaacaccgc tgatcacc cgtactttcc ccgtcaacgg aaaattttcc  
60  
gaagttcagg caaaggctta tcaggcgggt ctggacgctg cagatgcggc atttaaggca  
120  
gccgttcctg gcaataaatt ccgcgacgac catgctgcag cgatgaatgt tctgcctcc  
180  
cgcccttgagg actggggggt tatgccgggc agcgcgaagg tcgctctttc ggacgagggc  
240  
gggcaacacc gtcgttggat gccgcacggc accagccacc atctagggct ggatgtgcac  
300

<210> 1840

<211> 100

<212> PRT

<213> Homo sapiens

<400> 1840

Xaa	Ile	Arg	Leu	Asn	Thr	Ala	Asp	Ile	Thr	Arg	Thr	Phe	Pro	Val	Asn
1				5					10					15	
Gly	Lys	Phe	Ser	Glu	Val	Gln	Ala	Lys	Ala	Tyr	Gln	Ala	Val	Leu	Asp
			20					25					30		
Ala	Ala	Asp	Ala	Ala	Phe	Lys	Ala	Ala	Val	Pro	Gly	Asn	Lys	Phe	Arg
			35				40					45			
Asp	Val	His	Ala	Ala	Ala	Met	Asn	Val	Leu	Ala	Ser	Arg	Leu	Glu	Asp

```

      50              55              60
Trp Gly Leu Met Pro Val Ser Ala Lys Val Ala Leu Ser Asp Glu Gly
65              70              75
Gly Gln His Arg Arg Trp Met Pro His Gly Thr Ser His His Leu Gly
      85              90              95
Leu Asp Val His
      100

```

```

<210> 1841
<211> 330
<212> DNA
<213> Homo sapiens

```

```

<400> 1841
nnctccaaga acgtccccga gtggggcccc agggcgctcg aactccccgg cgggcccggt
60
gtcgatccgg tggtcgagat cggcgggtccc ggtacgctag cccaatcgat ggtcgccccg
120
cgcgtcgccg cccatgtcgc ctgcatcggc gtgcttnacg gggattgtcg ggcggtgagg
180
acggcgctgc tgatgagcaa gaatctgcgc gtgcaagggc tgccggctcg cagccgcgcg
240
cagcaactcg cgatgatcgc gggggctcgag gcgaacggca tccgtccgat cctcgaccag
300
catttccgc tcgaaaatct ccccgacgcg
330

```

```

<210> 1842
<211> 110
<212> PRT
<213> Homo sapiens

```

```

<400> 1842
Xaa Ser Lys Asn Val Pro Glu Trp Gly Pro Arg Ala Leu Glu Leu Pro
1      5      10      15
Gly Gly Pro Gly Val Asp Pro Val Val Glu Ile Gly Gly Pro Gly Thr
20      25      30
Leu Ala Gln Ser Met Val Ala Pro Arg Val Gly Ala His Val Ala Leu
35      40      45
Ile Gly Val Leu Xaa Gly Asp Cys Arg Ala Val Arg Thr Ala Leu Leu
50      55      60
Met Ser Lys Asn Leu Arg Val Gln Gly Leu Pro Val Gly Ser Arg Ala
65      70      75      80
Gln Gln Leu Ala Met Ile Ala Gly Val Glu Ala Asn Gly Ile Arg Pro
85      90      95
Ile Leu Asp Gln His Phe Pro Leu Glu Asn Leu Pro Asp Ala
100      105      110

```

```

<210> 1843
<211> 473
<212> DNA
<213> Homo sapiens

```

```

<400> 1843

```

aagctttggc atctccagca aaagatgtgc tatttactga taccatcacc atgaaggcca  
 60  
 acagttttga gtccagatta acaccaagca ggttcataaa agccttaagt tatgcatcat  
 120  
 tagataaaga agattttattg agtcctatta atcaaaatac cctgcaacga tcttcctcag  
 180  
 tgccggtccat ggtgtccagt gccacatatg ggggttcaga tgattacatt ggtcttgctc  
 240  
 tcccggttga tataaatgat atattccagg taaaggatat tccttatctt cagacaaaaa  
 300  
 acataccacc acatgatgat cgaggtgcaa gagcatttgc ccatgatgca ggaggctctc  
 360  
 catctggaac tggaggctct gtaaaaaatt cttttcactt gctacgacag cagatgagtc  
 420  
 ttacggaaat aatgaattca atccattcag atgcctctcn cnnccnccnccc  
 473

<210> 1844

<211> 141

<212> PRT

<213> Homo sapiens

<400> 1844

Met	Lys	Ala	Asn	Ser	Phe	Glu	Ser	Arg	Leu	Thr	Pro	Ser	Arg	Phe	Met
1			5						10					15	
Lys	Ala	Leu	Ser	Tyr	Ala	Ser	Leu	Asp	Lys	Glu	Asp	Leu	Ser	Pro	
			20					25				30			
Ile	Asn	Gln	Asn	Thr	Leu	Gln	Arg	Ser	Ser	Ser	Val	Arg	Ser	Met	Val
			35				40				45				
Ser	Ser	Ala	Thr	Tyr	Gly	Gly	Ser	Asp	Asp	Tyr	Ile	Gly	Leu	Ala	Leu
			50			55				60					
Pro	Val	Asp	Ile	Asn	Asp	Ile	Phe	Gln	Val	Lys	Asp	Ile	Pro	Tyr	Phe
			65			70			75					80	
Gln	Thr	Lys	Asn	Ile	Pro	Pro	His	Asp	Asp	Arg	Gly	Ala	Arg	Ala	Phe
			85					90						95	
Ala	His	Asp	Ala	Gly	Gly	Leu	Pro	Ser	Gly	Thr	Gly	Gly	Leu	Val	Lys
			100				105						110		
Asn	Ser	Phe	His	Leu	Leu	Arg	Gln	Gln	Met	Ser	Leu	Thr	Glu	Ile	Met
			115				120						125		
Asn	Ser	Ile	His	Ser	Asp	Ala	Ser	Xaa	Xaa	Xaa	Xaa	Xaa	Pro		
			130			135							140		

<210> 1845

<211> 390

<212> DNA

<213> Homo sapiens

<400> 1845

aagcttacga cgcctagctt tggagacctg aaccacttga tcagtgcac aatgagtggg  
 60  
 gtgacttgct gcctccgctt cccggggcag ctcaactcgg accttcggaa acttgacgtg  
 120  
 aacctgattc cattccctcg cctgcacttt tttatggctg gctttgcgcc actcacctcg  
 180

cgtggctccc agcagtagcc tgctctcact gtccttgagc tgacccagca gatgtgggac  
 240  
 tccaagaaca tgatgtgtgc tgctgacccg cgtcatggcc gctacctcac agtatctgcc  
 300  
 atgttccctg gaaagatgag caccaaggag gtggcagcagc agatgctgaa cgtgcagaac  
 360  
 aagaactctt cctacttcgt ggagtggatc  
 390

<210> 1846

<211> 130

<212> PRT

<213> Homo sapiens

<400> 1846

Lys Leu Thr Thr Pro Ser Phe Gly Asp Leu Asn His Leu Ile Ser Ala  
 1 5 10 15  
 Thr Met Ser Gly Val Thr Cys Cys Leu Arg Phe Pro Gly Gln Leu Asn  
 20 25 30  
 Ser Asp Leu Arg Lys Leu Ala Val Asn Leu Ile Pro Phe Pro Arg Leu  
 35 40 45  
 His Phe Phe Met Val Gly Phe Ala Pro Leu Thr Ser Arg Gly Ser Gln  
 50 55 60  
 Gln Tyr Arg Ala Leu Thr Val Pro Glu Leu Thr Gln Gln Met Trp Asp  
 65 70 75 80  
 Ser Lys Asn Met Met Cys Ala Ala Asp Pro Arg His Gly Arg Tyr Leu  
 85 90 95  
 Thr Val Ser Ala Met Phe Arg Gly Lys Met Ser Thr Lys Glu Val Asp  
 100 105 110  
 Glu Gln Met Leu Asn Val Gln Asn Lys Asn Ser Ser Tyr Phe Val Glu  
 115 120 125  
 Trp Ile  
 130

<210> 1847

<211> 343

<212> DNA

<213> Homo sapiens

<400> 1847

cagccgtgct ttctgcgctc aactcgggaa cggctatatc gcgcagatcc aacagttcca  
 60  
 tggctcgaag agtagtaaaa atatcaataa ctggcagagc atcgcgctcaa gctggcgacc  
 120  
 ctggccgcgc ccgcgttggc cgatcacgcc atgttgagc aggccttcca gctgttccag  
 180  
 caaaaaagtgc gcggacaatc tcttgccgga tggtctgggtg ttgcacttca gggagcgcga  
 240  
 tgcactgcac tacgtcgtct atgacctgga gccgctgggt caggcgggccc tggcgggcga  
 300  
 gccctaacgg tggcaactgg ctgacttaca ccgcccccc cgn  
 343

<210> 1848

<211> 94  
 <212> PRT  
 <213> Homo sapiens

<400> 1848  
 Met Ala Arg Arg Val Val Lys Ile Ser Ile Thr Gly Arg Ala Ser Arg  
 1 5 10 15  
 Gln Ala Gly Asp Pro Gly Arg Arg Arg Val Gly Arg Ser Arg His Val  
 20 25 30  
 Gly Ala Gly Leu Pro Ala Val Pro Ala Lys Lys Leu Arg Thr Ile Ser  
 35 40 45  
 Cys Arg Met Ala Arg Cys Ser Thr Ser Gly Ser Ala Met His Cys Thr  
 50 55 60  
 Thr Ser Ser Met Thr Trp Ser Arg Trp Phe Arg Arg Pro Trp Arg Ala  
 65 70 75 80  
 Ser Pro Asn Gly Gly Asn Trp Leu Thr Tyr Thr Ala Pro Thr  
 85 90

<210> 1849  
 <211> 390  
 <212> DNA  
 <213> Homo sapiens

<400> 1849  
 cggaaagaac aggttcagca aagagcaata gaatgttccc gggctctcag tgcgattctt  
 60  
 gacattgaac atggagaccc aaaagagaat gtactaggtt cagcttttga catgaaacag  
 120  
 ctgaaggatg ctattgatga gactaaaata gctttgatgg gacattcttt tggaggagca  
 180  
 acagttcttc aagcccttag tgaggaccag agattcagat gtggagtgc tcttgatcca  
 240  
 tggatgtatc cggtgaacga agagctgtac tccagaaccc tccagcctct cctctttatc  
 300  
 aactctgcca aattccagac tccaaaggac atcgcaaaaa tgaaaaagtt ctaccagcct  
 360  
 gacaaggaaa ggaaanatga ttacaatcaa  
 390

<210> 1850  
 <211> 130  
 <212> PRT  
 <213> Homo sapiens

<400> 1850  
 Arg Lys Glu Gln Val Gln Gln Arg Ala Ile Glu Cys Ser Arg Ala Leu  
 1 5 10 15  
 Ser Ala Ile Leu Asp Ile Glu His Gly Asp Pro Lys Glu Asn Val Leu  
 20 25 30  
 Gly Ser Ala Phe Asp Met Lys Gln Leu Lys Asp Ala Ile Asp Glu Thr  
 35 40 45  
 Lys Ile Ala Leu Met Gly His Ser Phe Gly Gly Ala Thr Val Leu Gln  
 50 55 60  
 Ala Leu Ser Glu Asp Gln Arg Phe Arg Cys Gly Val Ala Leu Asp Pro

```

65              70              75              80
Trp Met Tyr Pro Val Asn Glu Glu Leu Tyr Ser Arg Thr Leu Gln Pro
      85              90              95
Leu Leu Phe Ile Asn Ser Ala Lys Phe Gln Thr Pro Lys Asp Ile Ala
      100             105             110
Lys Met Lys Lys Phe Tyr Gln Pro Asp Lys Glu Arg Lys Xaa Asp Tyr
      115             120             125
Asn Gln
      130

```

&lt;210&gt; 1851

&lt;211&gt; 574

&lt;212&gt; DNA

&lt;213&gt; Homo sapiens

&lt;400&gt; 1851

```

ncgatcggag aggcctttccg cactgggtgac ttggactcta agccccaccc cagccgggagc
60
ttcaggccctt accgagctga agacaatgat tcctatgcct ctgagatcaa ggagctgcag
120
ctgggtgctgg ctgaggccca cgacagcctc cggggcttgc aagagcagct ctcccaggag
180
cggcagctac gaaaggagga ggccgacaat ttcaaccaga aaatgggtcca gctgaaggag
240
gaccagcaga gggcgctcct gaggcgggag tttgagctgc agagtctgag cctccagcgg
300
aggctggagc agaaattctg gagccaggag aagaacatgc tgggtgcagga gtcccagcaa
360
ttcaagcaca acttcctgct gctcttcattg aagctcaggt ggttcctcaa gcgctggcgg
420
cagggcaagg ttttgccag cgaaggggat gacttcctcg aggtgaacag catgaaggag
480
ctgtacttgc tgatggagga agacgagata aacgctcagc attctgataa caaggcctgc
540
acgggggaca gctggaccca gaacacgccc aatg
574

```

&lt;210&gt; 1852

&lt;211&gt; 191

&lt;212&gt; PRT

&lt;213&gt; Homo sapiens

&lt;400&gt; 1852

```

Xaa Ile Gly Glu Ala Phe Arg Thr Gly Asp Leu Asp Ser Lys Pro Asp
1      5      10      15
Pro Ser Arg Ser Phe Arg Pro Tyr Arg Ala Glu Asp Asn Asp Ser Tyr
      20      25      30
Ala Ser Glu Ile Lys Glu Leu Gln Leu Val Leu Ala Glu Ala His Asp
      35      40      45
Ser Leu Arg Gly Leu Gln Glu Gln Leu Ser Gln Arg Gln Leu Arg
      50      55      60
Lys Glu Glu Ala Asp Asn Phe Asn Gln Lys Met Val Gln Leu Lys Glu
65      70      75      80
Asp Gln Gln Arg Ala Leu Leu Arg Arg Glu Phe Glu Leu Gln Ser Leu

```

```

      85              90              95
Ser Leu Gln Arg Arg Leu Glu Gln Lys Phe Trp Ser Gln Glu Lys Asn
      100              105              110
Met Leu Val Gln Glu Ser Gln Gln Phe Lys His Asn Phe Leu Leu Leu
      115              120              125
Phe Met Lys Leu Arg Trp Phe Leu Lys Arg Trp Arg Gln Gly Lys Val
      130              135              140
Leu Pro Ser Glu Gly Asp Asp Phe Leu Glu Val Asn Ser Met Lys Asp
      145              150              155              160
Leu Tyr Leu Leu Met Glu Glu Asp Glu Ile Asn Ala Gln His Ser Asp
      165              170              175
Asn Lys Ala Cys Thr Gly Asp Ser Trp Thr Gln Asn Thr Pro Asn
      180              185              190

```

&lt;210&gt; 1853

&lt;211&gt; 338

&lt;212&gt; DNA

&lt;213&gt; Homo sapiens

&lt;400&gt; 1853

```

gccggcgccg accaagccac ggcattgcccc acccacccttg gaagaggtgt cgttccgccca
60
cgctcattgag gagcgcgccg tcgaagctga ctgtttcgtc cgctcgctca atacactcga
120
gcctgcgcagc ggcattggcac ttctgcgcatt ctgcgaccac atggatggca aggtcggcac
180
gacgtttttc ctggatgacg atgtcatttt tgctgcgcga cagaagcagc gctcagccga
240
gggcccagcga ctgaatacag agcccgtctc ttgggccgag ttgctcgagc gcgctgctgc
300
atagaatata tatacccaag ctatgatgat gccgtcgt
338

```

&lt;210&gt; 1854

&lt;211&gt; 100

&lt;212&gt; PRT

&lt;213&gt; Homo sapiens

&lt;400&gt; 1854

```

Met Pro His Pro Pro Trp Lys Arg Cys Arg Ser Ala Thr Ser Leu Arg
1      5      10      15
Ser Ala Pro Ser Lys Leu Thr Cys Ser Ser Ala Arg Ser Ile His Ser
20      25      30
Ser Leu Arg Arg Ala Trp His Phe Cys Ala Ser Arg Thr Thr Trp Met
35      40      45
Ala Arg Ser Ala Arg Arg Phe Thr Trp Met Thr Met Ser Phe Leu Ser
50      55      60
Arg His Arg Ser Ser Ala Gln Pro Arg Ala Ser Asp Ser Asn Thr Ser
65      70      75      80
Pro Ser Leu Trp Pro Ser Cys Ser Ser Ala Leu Leu His Arg Ile His
85      90      95
Ile Pro Lys Leu
100

```

&lt;210&gt; 1855

&lt;211&gt; 429

&lt;212&gt; DNA

&lt;213&gt; Homo sapiens

&lt;400&gt; 1855

gcgtccttcg cgtacgtgga cgagggcgagg caggtgttcg tccagtgcag caccagcac  
 60  
 ccgagcgaaa cgcaggaaat cgtggcgcac gtccctggacc tggacaacca cgaggtcacg  
 120  
 gtgcagtgcg tgcgcattgg cggtggcttt ggcggtaagg aaatgcagcc gcacgggttc  
 180  
 gccgcgacgc cagcactcgg cgcgaccctg accggggcgac cggttcgact gcgactgacc  
 240  
 cgaaaccagg acatcaccat ctccggaaag cgccacccat acctcgcgga gtgggacgtg  
 300  
 gccttcgacg acgacggccg cctccaggct ctgcgcgcca ccgtcaccag cgacggcgagg  
 360  
 tggagcctgg acctctcgga gccggtgatg cagcggacgg tgtgtcacat cgataactcc  
 420  
 tattggatc  
 429

&lt;210&gt; 1856

&lt;211&gt; 143

&lt;212&gt; PRT

&lt;213&gt; Homo sapiens

&lt;400&gt; 1856

Ala	Ser	Phe	Ala	Tyr	Val	Asp	Glu	Gly	Gly	Gln	Val	Phe	Val	Gln	Cys
1				5					10					15	
Ser	Thr	Gln	His	Pro	Ser	Glu	Thr	Gln	Glu	Ile	Val	Ala	His	Val	Leu
		20						25					30		
Asp	Leu	Asp	Asn	His	Glu	Val	Thr	Val	Gln	Cys	Leu	Arg	Met	Gly	Gly
		35					40					45			
Gly	Phe	Gly	Gly	Lys	Glu	Met	Gln	Pro	His	Gly	Phe	Ala	Ala	Ile	Ala
	50			55							60				
Ala	Leu	Gly	Ala	Thr	Leu	Thr	Gly	Arg	Pro	Val	Arg	Leu	Arg	Leu	Thr
	65			70				75						80	
Arg	Asn	Gln	Asp	Ile	Thr	Ile	Ser	Gly	Lys	Arg	His	Pro	Tyr	Leu	Ala
			85					90					95		
Glu	Trp	Asp	Val	Ala	Phe	Asp	Asp	Gly	Arg	Leu	Gln	Ala	Leu	Arg	
			100				105					110			
Ala	Thr	Val	Thr	Ser	Asp	Gly	Gly	Trp	Ser	Leu	Asp	Leu	Ser	Glu	Pro
		115					120					125			
Val	Met	Gln	Arg	Thr	Val	Cys	His	Ile	Asp	Asn	Ser	Tyr	Trp	Ile	
		130					135					140			

&lt;210&gt; 1857

&lt;211&gt; 393

&lt;212&gt; DNA

&lt;213&gt; Homo sapiens

&lt;400&gt; 1857

gtgcacgccc ctgccccagc cgtcgccctac cgatcaacag acgcagccgc cgtgcgttga  
 60  
 gataccagcc gagcacgata atgctcagca tggtcagcag cagccagaac ggaaatcgca  
 120  
 gcaggcgctc gaacagctca ctgccaccca gcaccagcgg gattgcccc gccacgacca  
 180  
 gtgcgcgcag gagcagccac catcgcccg ccatgctgcg gactcgata ccaatacgtt  
 240  
 gcgcttcaac caatcgatct tggtcgagcg atgcgcacca tcttccaaca ggcgagtcac  
 300  
 cagactcagc cagtaacacc gcgaaaaatc gtggcgcatg tcgacagggt gcaaaccgag  
 360  
 acgcagcacg ggtgcctgtc ggtggcgggc gag  
 393

&lt;210&gt; 1858

&lt;211&gt; 104

&lt;212&gt; PRT

&lt;213&gt; Homo sapiens

&lt;400&gt; 1858

Met	Leu	Ser	Met	Val	Ser	Ser	Ser	Gln	Asn	Gly	Asn	Arg	Ser	Arg	Arg
1				5					10				15		
Ser	Asn	Ser	Ser	Leu	Pro	Pro	Ser	Thr	Ser	Gly	Ile	Ala	Pro	Ala	Thr
			20					25					30		
Thr	Ser	Ala	Pro	Arg	Ser	Ser	His	Arg	Pro	Leu	Met	Leu	Arg	His	
			35				40				45				
Ser	Ile	Pro	Ile	Arg	Cys	Ala	Ser	Thr	Asn	Arg	Ser	Trp	Ser	Arg	His
			50				55				60				
Ala	Ala	His	Leu	Pro	Thr	Gly	Glu	Ser	Pro	Asp	Ser	Ala	Ser	Asn	Thr
			65			70			75					80	
Ala	Lys	Asn	Arg	Gly	Ala	Cys	Arg	Gln	Gly	Ala	Asn	Arg	Asp	Ala	Ala
			85						90					95	
Arg	Val	Pro	Val	Gly	Gly	Gly	Arg								
							100								

&lt;210&gt; 1859

&lt;211&gt; 345

&lt;212&gt; DNA

&lt;213&gt; Homo sapiens

&lt;400&gt; 1859

nagatctggc gcctcgctac caacttcttc tacttccgca agatggattt ggattttctg  
 60  
 ttccacatgt tttttctcgc acgatactgc aagcttcttg aggagaactc atttagagga  
 120  
 agaactgcgc acttttttta catgctcttg tttggtgcta ctgtcctaac tagcattggt  
 180  
 ctgatcgagg ggatgatacc ttacatttcc gagacatttg ccagaattct gttcctgagc  
 240  
 aattcattga cgtttatgat ggtttatgtc tggagcaagc acaatctat catccatag  
 300  
 agcaatctgg gcctgttcac ctttacggct gcatacttac catgg  
 345

<210> 1860  
 <211> 115  
 <212> PRT  
 <213> Homo sapiens

<400> 1860  
 Xaa Ile Trp Arg Leu Val Thr Asn Phe Leu Tyr Phe Arg Lys Met Asp  
 1 5 10 15  
 Leu Asp Phe Leu Phe His Met Phe Phe Leu Ala Arg Tyr Cys Lys Leu  
 20 25 30  
 Leu Glu Glu Asn Ser Phe Arg Gly Arg Thr Ala Asp Phe Phe Tyr Met  
 35 40 45  
 Leu Leu Phe Gly Ala Thr Val Leu Thr Ser Ile Val Leu Ile Gly Gly  
 50 55 60  
 Met Ile Pro Tyr Ile Ser Glu Thr Phe Ala Arg Ile Leu Phe Leu Ser  
 65 70 75 80  
 Asn Ser Leu Thr Phe Met Met Val Tyr Val Trp Ser Lys His Asn Pro  
 85 90 95  
 Ile Ile His Met Ser Asn Leu Gly Leu Phe Thr Phe Thr Ala Ala Tyr  
 100 105 110  
 Leu Pro Trp  
 115

<210> 1861  
 <211> 435  
 <212> DNA  
 <213> Homo sapiens

<400> 1861  
 gcgttgactg tagtgagtga cgaagctgat atacaaaatg cgccgggcgt tagaaaagcc  
 60  
 aatagtgcgc ttcatcagct cggcttaggt gttatgaact tacatggcta tcttgctaaa  
 120  
 aacaaaattg gctatgagtc ggaagaagct aaagattttg ctaatatatt ctttatgatg  
 180  
 atgaattact attcacttga aagatcaatg caaatagcaa aagaaagaca ggaaacgttt  
 240  
 aaagactcttg ataagtcaga ttatgcaaat ggaaaatatt tcgaatttta tacttcgcaa  
 300  
 tcatttgaac cgaaatcga aaaagtacgt aaattatttg atggttttaga aatcccaacg  
 360  
 cctgaagatt ggaaagcatt gcaaaaagaa gttgaaactc acggttttatt ccatgcttat  
 420  
 cgtttagcga ttgca  
 435

<210> 1862  
 <211> 145  
 <212> PRT  
 <213> Homo sapiens

<400> 1862  
 Ala Leu Thr Val Val Ser Asp Glu Ala Asp Ile Gln Asn Ala Pro Gly

```

      1           5           10           15
Val Arg Lys Ala Asn Ser Glu Leu His Ser Val Gly Leu Gly Val Met
      20           25           30
Asn Leu His Gly Tyr Leu Ala Lys Asn Lys Ile Gly Tyr Glu Ser Glu
      35           40           45
Glu Ala Lys Asp Phe Ala Asn Ile Phe Phe Met Met Met Asn Tyr Tyr
      50           55           60
Ser Leu Glu Arg Ser Met Gln Ile Ala Lys Glu Arg Gln Glu Thr Phe
      65           70           75           80
Lys Asp Phe Asp Lys Ser Asp Tyr Ala Asn Gly Lys Tyr Phe Glu Phe
      85           90           95
Tyr Thr Ser Gln Ser Phe Glu Pro Lys Tyr Glu Lys Val Arg Lys Leu
      100          105          110
Phe Asp Gly Leu Glu Ile Pro Thr Pro Glu Asp Trp Lys Ala Leu Gln
      115          120          125
Lys Glu Val Glu Thr His Gly Leu Phe His Ala Tyr Arg Leu Ala Ile
      130          135          140
Ala
145

```

&lt;210&gt; 1863

&lt;211&gt; 792

&lt;212&gt; DNA

&lt;213&gt; Homo sapiens

&lt;400&gt; 1863

```

nggatccctca cgccccccat catatcgtagg atatcggtga gcaaatgcgt catgacgggg
60
tctccgctcgt gctcaactacc cacaacatgg atgagggtca acggctgggt gatcacgtct
120
ggatcgtagc tcgcggcagg gtcgcaactc atggaactgt gccagagctc accgctgagt
180
cgagtttggga agatgtgttc ctcaactaca ctagtgaccg cgcagcaggg aggaattgac
240
atgacgacac tcgatctccg ccccgccact caggccgcac cggctgtgac acgctgagct
300
aaccacgctc tcaccagggt gcgtctgggt atgcgcaacg gtgagcagct gctactagct
360
ctcgtcattc ccatcgggat catcgtcgcc gggcgcttcc tggcgggccg ggtcggactg
420
acgatggacg tcttagcacc ctcaagtctg gcgctcgcca tctggtcgac atgtttcact
480
tcccaagcga tcatgaccgg ttttgaacgc cgttacgggg tgctcgaaac attgtccgca
540
accccgtagt gtcggtcggg tctgctagct ggcaaggcga tggcttatcc cgttatcagt
600
ctcgtcagg tgatactgct tgtcatcacc tcttttagcgc tgggctggca ccccaacggt
660
tcggcctggg cctggctccc aaccctgggt agcgttgtgc tcgcatgat gacattcggg
720
ctgcagcac tggcaatggc cggcgctggc aaagctgaag tcaactctcg actggccaac
780
ttggtataca tc
792

```

<210> 1864  
 <211> 264  
 <212> PRT  
 <213> Homo sapiens

<400> 1864  
 Xaa Ile Leu Thr Pro Ala Ile Ile Arg Gly Ile Ser Leu Ser Lys Cys  
 1 5 10 15  
 Val Met Thr Gly Ser Pro Ser Cys Ser Leu Pro Thr Thr Trp Met Arg  
 20 25 30  
 Leu Asn Gly Trp Leu Ile Thr Ser Gly Ser Ser Ile Ala Ala Gly Ser  
 35 40 45  
 Gln Leu Met Glu Leu Cys Gln Ser Ser Pro Leu Ser Arg Val Trp Lys  
 50 55 60  
 Met Cys Ser Ser Leu Thr Leu Val Thr Ala Gln Gly Gly Ile Asp  
 65 70 75 80  
 Met Thr Thr Leu Asp Leu Arg Pro Ala Pro Gln Ala Ala Pro Ala Ala  
 85 90 95  
 Ala Arg Val Arg Asn His Ala Leu Thr Glu Val Arg Leu Val Met Arg  
 100 105 110  
 Asn Gly Glu Gln Leu Leu Leu Ala Leu Val Ile Pro Ile Gly Ile Ile  
 115 120 125  
 Val Ala Gly Arg Phe Leu Gly Gly Arg Val Gly Leu Thr Met Asp Val  
 130 135 140  
 Leu Ala Pro Ser Val Leu Ala Leu Ala Ile Trp Ser Thr Cys Phe Thr  
 145 150 155 160  
 Ser Gln Ala Ile Met Thr Gly Phe Glu Arg Arg Tyr Gly Val Leu Glu  
 165 170 175  
 Arg Leu Ser Ala Thr Pro Leu Gly Arg Ser Gly Leu Leu Ala Gly Lys  
 180 185 190  
 Ala Met Ala Tyr Ser Val Ile Ser Leu Ala Gln Val Ile Leu Leu Val  
 195 200 205  
 Ile Ile Ser Leu Ala Leu Gly Trp His Pro His Gly Ser Gly Leu Ala  
 210 215 220  
 Trp Leu Pro Thr Leu Val Ser Val Val Leu Ala Met Met Thr Phe Gly  
 225 230 235 240  
 Leu Ala Ala Leu Ala Met Ala Gly Ala Gly Lys Ala Glu Val Thr Leu  
 245 250 255  
 Gly Leu Ala Asn Leu Val Tyr Ile  
 260

<210> 1865  
 <211> 717  
 <212> DNA  
 <213> Homo sapiens

<400> 1865  
 ngccggctga tcaaacaaact cacagacatg ggcttcccgag gagagccagc tgaggaggcc  
 60  
 ttgaagagta acaatatgaa tcttgatcag gccatgagcg ctctgctgga aaagaaggtg  
 120  
 gacgtggaca agcgtgggct gggagtgcac gaccataatg gaatggccgc caagcccttc  
 180

ggctgccgcc cgccaatctc caaagagtct tccgtggacc gccccaccct tcttgacaag  
 240  
 gatggcgccc tcgtggaaga gcccacgcct tcaccgttct tgccttcccc aagcctgaag  
 300  
 ctcccccttt cacacagtgc actccccagt caggccctgg gtgggggtgc ctccgggctg  
 360  
 ggcctgcaaa acttgaatc ttctagacag ataccgagtg gcaatctggg tatgtttggc  
 420  
 aatagtggag cagcacaagc caggaccatg cagcagccgc cacagccacc agtgcagcct  
 480  
 cttaactctt cccagcccag tctccgtgct caagtgcctc agtttctatc ccctcaggtt  
 540  
 caagcacagc ttttgcagtt tgcagcaaaa aacattggtc tcaaccctgc actattaacc  
 600  
 tcgccaatta atcctcaaca tatgacgatg ttgaaccagc tctatcagct gcagctggga  
 660  
 taccacggtt tacaatatcca gcagcagatg ttacaggccc agcgtaatgt gtccgga  
 717

&lt;210&gt; 1866

&lt;211&gt; 239

&lt;212&gt; PRT

&lt;213&gt; Homo sapiens

&lt;400&gt; 1866

Xaa Arg Leu Ile Lys Gln Leu Thr Asp Met Gly Phe Pro Arg Glu Pro  
 1 5 10 15  
 Ala Glu Glu Ala Leu Lys Ser Asn Asn Met Asn Leu Asp Gln Ala Met  
 20 25 30  
 Ser Ala Leu Leu Glu Lys Lys Val Asp Val Asp Lys Arg Gly Leu Gly  
 35 40 45  
 Val Thr Asp His Asn Gly Met Ala Ala Lys Pro Leu Gly Cys Arg Pro  
 50 55 60  
 Pro Ile Ser Lys Glu Ser Ser Val Asp Arg Pro Thr Leu Leu Asp Lys  
 65 70 75 80  
 Asp Gly Gly Leu Val Glu Glu Pro Thr Pro Ser Pro Phe Leu Pro Ser  
 85 90 95  
 Pro Ser Leu Lys Leu Pro Leu Ser His Ser Ala Leu Pro Ser Gln Ala  
 100 105 110  
 Leu Gly Gly Val Ala Ser Gly Leu Gly Met Gln Asn Leu Asn Ser Ser  
 115 120 125  
 Arg Gln Ile Pro Ser Gly Asn Leu Gly Met Phe Gly Asn Ser Gly Ala  
 130 135 140  
 Ala Gln Ala Arg Thr Met Gln Gln Pro Pro Gln Pro Pro Val Gln Pro  
 145 150 155 160  
 Leu Asn Ser Ser Gln Pro Ser Leu Arg Ala Gln Val Pro Gln Phe Leu  
 165 170 175  
 Ser Pro Gln Val Gln Ala Gln Leu Leu Gln Phe Ala Ala Lys Asn Ile  
 180 185 190  
 Gly Leu Asn Pro Ala Leu Leu Thr Ser Pro Ile Asn Pro Gln His Met  
 195 200 205  
 Thr Met Leu Asn Gln Leu Tyr Gln Leu Gln Leu Ala Tyr Gln Arg Leu  
 210 215 220  
 Gln Ile Gln Gln Gln Met Leu Gln Ala Gln Arg Asn Val Ser Gly

225

230

235

&lt;210&gt; 1867

&lt;211&gt; 518

&lt;212&gt; DNA

&lt;213&gt; Homo sapiens

&lt;400&gt; 1867

nnggggcacg gttagggccca gtgggcagag gggtagaggga tatgcaggac ctccactgt  
 60  
 tccatgcatg ggacggcact tgggtcccg atcaggtagc caggcatgga aggaacatgg  
 120  
 gaggaaggga actgtctggt gcgccagtgt tgttcaaggga ggatgtgaca agacaggcca  
 180  
 tctggttggc tggccctggt acccaacaac gtggtggcca aggccttgtg cccggagagg  
 240  
 ttcttggggg ccagcagggg gctacatagg acatgggtgg ggaccccgag tccgagccca  
 300  
 cctctctcgc ctccaccctt tccaccnng cagccccgc ctctcccgca gaactctccc  
 360  
 caagccagac gccttgacc ggctgcttaa gtcaggcttt gggacatacc ctgggaggaa  
 420  
 gcgaggtgct ttgaccccc aagtgatcat gttcccgctg ccagcctgcc aaggatgatg  
 480  
 ggagccttggg gagcggggtc tggcagggct tttccgga  
 518

&lt;210&gt; 1868

&lt;211&gt; 73

&lt;212&gt; PRT

&lt;213&gt; Homo sapiens

&lt;400&gt; 1868

Gln Asp Arg Pro Ser Gly Trp Leu Ala Leu Leu Pro Asn Asn Val Val  
 1 5 10 15  
 Ala Lys Ala Leu Cys Pro Glu Arg Phe Leu Gly Ala Ser Arg Gly Leu  
 20 25 30  
 His Arg Thr Trp Val Gly Thr Pro Ala Pro Ser Pro Pro Leu Leu Pro  
 35 40 45  
 Pro Pro Leu Pro Pro Xaa Gln Pro Pro Pro Leu Pro Gln Asn Ser Pro  
 50 55 60  
 Gln Ala Arg Pro Pro Gly Pro Ala Ala  
 65 70

&lt;210&gt; 1869

&lt;211&gt; 436

&lt;212&gt; DNA

&lt;213&gt; Homo sapiens

&lt;400&gt; 1869

acgcgtcacc ttctctgtgg agctactggg agccctcgga cacctgcgtg cattgcccga  
 60  
 ccgtgacatg ccgagcaccg aaaccacct gtggattcgc gagctgagcc gcacgaccg  
 120

cgacgtgtcg actgccaccc actttcgttg gagcgacgac ggcaccgtgc taggtcagac  
 180  
 gaccgacgat ggcaccgagc ctgaggttgt tgccttgcca gcggtctact gccgtcgttg  
 240  
 cggcgcgacg gcatggggag tccagctcgc cagcaccggc aataacctca gcgagaacaa  
 300  
 cgacagcatc cgacggaccc acgcggcaca cgacggctgc ttccgagcct tgctttcggc  
 360  
 ccctcgagag ggagccagcg cggtcgacac cggcgaggcg acactgtcct tacgctgggt  
 420  
 cgacaccgtc aacagg  
 436

<210> 1870

<211> 123

<212> PRT

<213> Homo sapiens

<400> 1870

Met	Pro	Ser	Thr	Glu	Thr	His	Leu	Trp	Ile	Arg	Glu	Leu	Ser	Arg	Ile
1				5					10					15	
Asp	Arg	Asp	Val	Ser	Thr	Ala	Thr	His	Phe	Arg	Trp	Ser	Asp	Asp	Gly
			20					25					30		
Thr	Val	Leu	Gly	Gln	Thr	Thr	Asp	Asp	Gly	Thr	Glu	Pro	Glu	Val	Val
			35				40					45			
Ala	Leu	Pro	Ala	Val	Tyr	Cys	Arg	Arg	Cys	Gly	Arg	Ser	Gly	Trp	Gly
		50				55					60				
Val	Gln	Leu	Ala	Ser	Thr	Gly	Asn	Asn	Leu	Ser	Glu	Asn	Asn	Asp	Ser
65					70				75					80	
Ile	Arg	Arg	Thr	His	Ala	Ala	His	Asp	Gly	Arg	Phe	Arg	Ala	Leu	Leu
			85					90					95		
Ser	Ala	Pro	Arg	Glu	Gly	Ala	Ser	Ala	Val	Asp	Thr	Gly	Glu	Ala	Thr
			100				105						110		
Leu	Ser	Leu	Arg	Trp	Phe	Asp	Thr	Val	Asn	Arg					
			115				120								

<210> 1871

<211> 474

<212> DNA

<213> Homo sapiens

<400> 1871

nntgcagcgc cccgaggtcg atgtctccaa cgtctttgcc agccttgaca tggctagcga  
 60  
 gcccgcacct gtccgtaccc tgctgaggca agcccaacaa tgaccgggga acagctcgcg  
 120  
 cattggatcg aggagtcgac gtcgacgggt tttttcggcg gcgcggaat gtcaccgaa  
 180  
 tcaggatttc cggactttcg ctccggtggc gggctttaca ccaactcagca tgacctgcc  
 240  
 ttccccgcgg agtacatgct cagtccacgc tgtttggttg agcatcccg gcgagttcttc  
 300  
 gactttacc gcacctacct catccatcct caggccaggc ccaatgctgg tcacgtgcg  
 360

ttggttgccct tggagcaggc tggggaactt tcgacgatca ttaccagaa tattgacggc  
 420  
 ctgcaccaag aagctgggtc tcgtcaggtc attgagttgc atgggtcggt gcac  
 474

<210> 1872  
 <211> 125  
 <212> PRT  
 <213> Homo sapiens

<400> 1872  
 Met Thr Gly Glu Gln Leu Ala His Trp Ile Glu Glu Ser Thr Ser Thr  
 1 5 10 15  
 Val Phe Phe Gly Gly Ala Gly Met Ser Thr Glu Ser Gly Ile Pro Asp  
 20 25 30  
 Phe Arg Ser Ala Gly Gly Leu Tyr Thr Thr Gln His Asp Leu Pro Phe  
 35 40 45  
 Pro Ala Glu Tyr Met Leu Ser His Ser Cys Leu Val Glu His Pro Ala  
 50 55 60  
 Glu Phe Phe Asp Phe Tyr Arg Thr Tyr Leu Ile His Pro Gln Ala Arg  
 65 70 75 80  
 Pro Asn Ala Gly His Arg Ala Leu Val Ala Leu Glu Gln Ala Gly Glu  
 85 90 95  
 Leu Ser Thr Ile Ile Thr Gln Asn Ile Asp Gly Leu His Gln Glu Ala  
 100 105 110  
 Gly Ser Arg Gln Val Ile Glu Leu His Gly Ser Val His  
 115 120 125

<210> 1873  
 <211> 338  
 <212> DNA  
 <213> Homo sapiens

<400> 1873  
 nacgcgtaga aatgaagccc cagctggtca gagaccgaa atccggtagt gcacgggacg  
 60  
 ggttccctcg gggatctcgg aggggagacc cccaccggg aggaactggag gcagcgcctc  
 120  
 tccgcgcccc gcgcgcgcag cctatttccc tctttccaag gggccaatcc ccaccgcggc  
 180  
 ccgcaggggg gcgcgtcaag gcaaggtccg cggcgagaa ggtgcccast gggagcgaag  
 240  
 ggccgaggcca gcccttggtc cttggccggc agttcgggtc ccgcctccaa attttagtat  
 300  
 gcatatgagt caccaggaaa gttttttgaa acaaattt  
 338

<210> 1874  
 <211> 93  
 <212> PRT  
 <213> Homo sapiens

<400> 1874  
 Ser Pro Ser Trp Ser Glu Thr Gly Asn Pro Val Val His Gly Thr Gly

```

      1           5           10           15
Ser Leu Gly Asp Leu Gly Gly Glu Thr Pro Thr Arg Glu Asp Trp Arg
      20           25           30
Gln Arg Leu Ser Arg Pro Gly Ala Arg Ser Leu Phe Pro Ser Phe Gln
      35           40           45
Gly Ala Asn Pro His Arg Gly Pro Gln Gly Ala Arg Ser Arg Gln Gly
      50           55           60
Pro Arg Arg Glu Arg Cys Pro Val Gly Ala Lys Gly Glu Ala Ser Pro
      65           70           75           80
Trp Ser Leu Ala Gly Ser Ser Gly Pro Ala Ser Lys Phe
      85           90

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&lt;210&gt; 1875

&lt;211&gt; 366

&lt;212&gt; DNA

&lt;213&gt; Homo sapiens

&lt;400&gt; 1875

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aagcttggtg tacaagtggg tcgtcgtttc tcaggtgggt gagccgtgta tcacgatatg
60
ggcaatatct gcttctgctt cattacagaa gatgatggcg atagcttcgg tgattttgga
120
aaattccacag aacccgtgat tgaagcactc cataaaatgg gagcaacagg ggcagagtta
180
caaggacgta acgaccttct catcgacgga aagaaattct ctggaaatgc gatgtactca
240
aacaatggcc gttaacagc gcacggaaca ttaatgttgg attagatgt gagcattttg
300
ccacaaattt tacgtccaaa acaagagaaa atcgagtcaa aaggaatcaa gtcggttcgt
360
tcacgc
366

```

&lt;210&gt; 1876

&lt;211&gt; 122

&lt;212&gt; PRT

&lt;213&gt; Homo sapiens

&lt;400&gt; 1876

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Lys Leu Gly Val Gln Val Val Arg Arg Phe Ser Gly Gly Gly Ala Val
      1           5           10           15
Tyr His Asp Met Gly Asn Ile Cys Phe Cys Phe Ile Thr Glu Asp Asp
      20           25           30
Gly Asp Ser Phe Arg Asp Phe Gly Lys Phe Thr Glu Pro Val Ile Glu
      35           40           45
Ala Leu His Lys Met Gly Ala Thr Gly Ala Glu Leu Gln Gly Arg Asn
      50           55           60
Asp Leu Leu Ile Asp Gly Lys Lys Phe Ser Gly Asn Ala Met Tyr Ser
      65           70           75           80
Asn Asn Gly Arg Leu Thr Ala His Gly Thr Leu Met Leu Asp Leu Asp
      85           90           95
Val Ser Ile Leu Pro Gln Ile Leu Arg Pro Lys Gln Glu Lys Ile Glu
      100          105          110
Ser Lys Gly Ile Lys Ser Val Arg Ser Arg

```

115

120

<210> 1877  
 <211> 357  
 <212> DNA  
 <213> Homo sapiens

<400> 1877  
 acgcgtgagt ggtcgcaaat atgacgggca agaaacgctt agaaagaaac taccatttaa  
 60  
 cgagggttatg caaattgcag aaatctctct atcggattgt ggctatatatta tttcatcttt  
 120  
 ccaagctgct ggaccaagggt ctgtagggtt gcaacgacct attatatctg aacatttttt  
 180  
 tcaatttgac ccatttgata aacgacattg ggttgcttca catcatttac cacacgctgc  
 240  
 gacagctgct ttcacttccg gatttgaaga ttgcgctgga ttagtttcag atactgccgg  
 300  
 atcgaacact ctgtatggaa aggactatgt tgaaagctgc tgcaatgcta ttccacg  
 357

<210> 1878  
 <211> 96  
 <212> PRT  
 <213> Homo sapiens

<400> 1878  
 Met Gln Ile Ala Glu Ile Ser Leu Ser Asp Cys Gly Tyr Ile Ile Ser  
 1 5 10 15  
 Ser Phe Gln Ala Ala Gly Pro Arg Ala Val Gly Leu Gln Arg Pro Ile  
 20 25 30  
 Ile Ser Glu His Phe Phe Gln Phe Asp Pro Phe Asp Lys Arg His Trp  
 35 40 45  
 Val Val Ser His His Leu Pro His Ala Ala Thr Ala Ala Phe Thr Ser  
 50 55 60  
 Gly Phe Glu Asp Cys Ala Gly Leu Val Ser Asp Thr Ala Gly Ser Asn  
 65 70 75 80  
 Thr Leu Asp Gly Lys Asp Tyr Val Glu Ser Cys Cys Asn Ala Ile Pro  
 85 90 95

<210> 1879  
 <211> 1062  
 <212> DNA  
 <213> Homo sapiens

<400> 1879  
 nacgcgtgga tgctccttgg acgccttttt cgtggtagag ggttcccggt gcgcgcgcga  
 60  
 tccctgggaa gtagctgaag agaaggcaca ggaagagtcg cctccactga tggctctcct  
 120  
 gtccctccca caggctctga cgcctctct gcggcttcgg tgtttgaaca ggccacagtc  
 180  
 caggagcgct tacattcagg agctccgcgt agcacctgcc caaccaaact cagccctccg  
 240

ttaagatcct ggttccatgc cgcagtagga cagcaggccc aagtctgcac atcccagtga  
 300  
 tgcaccatgc caatagtga taagttgaag gaggccctga aacccggccg caaggactcg  
 360  
 gctgatgatg gagaactggg gaagcttctt gcctcctctg ccaagaagggt ccttttacag  
 420  
 aaaatcgagt tcgagccagc cagcaagagc ttctcctacc agctggaggc cttaaagagc  
 480  
 aaatatgtgt tgctcaaccc caaacacagag ggagctagtc gccacaagag tggagatgac  
 540  
 ccaccggcca ggagacaggg cagtgaacac acgtatgaga gctgtggtga cggagtccca  
 600  
 gccccgcaga aagtgtcttt cccacaggag cgactgtctc tgaggtggga ggggtcttc  
 660  
 cgcgtggggc caggactcca caaccttgcc aacacctgct ttctcaatgc caccatccag  
 720  
 tgcttgacct acacaccacc tctagccaac tacctgtctc ccaaggagca tgctcgcagc  
 780  
 tgccaccagg gaagcttctg catgctgtgt gtcatgcaga accacattgt ccaggccttc  
 840  
 gccaacagcg gcaacgccat caagcccgtc tccttcatcc gagacctgaa aaagatcgcc  
 900  
 cgacacttcc gctttgggaa ccaggaggac gcgcatgagt tcctcgcgga caccatcgac  
 960  
 gccatgcaga aagcctgcct gaatggctgt gccaaagtgg atcgtaaac gcaggctact  
 1020  
 accttggctc atcaaatttt tggagggtat ctcatgcac gc  
 1062

&lt;210&gt; 1880

&lt;211&gt; 252

&lt;212&gt; PRT

&lt;213&gt; Homo sapiens

&lt;400&gt; 1880

Met Pro Ile Val Asp Lys Leu Lys Glu Ala Leu Lys Pro Gly Arg Lys  
 1 5 10 15  
 Asp Ser Ala Asp Asp Gly Glu Leu Gly Lys Leu Leu Ala Ser Ser Ala  
 20 25 30  
 Lys Lys Val Leu Leu Gln Lys Ile Glu Phe Glu Pro Ala Ser Lys Ser  
 35 40 45  
 Phe Ser Tyr Gln Leu Glu Ala Leu Lys Ser Lys Tyr Val Leu Leu Asn  
 50 55 60  
 Pro Lys Thr Glu Gly Ala Ser Arg His Lys Ser Gly Asp Asp Pro Pro  
 65 70 75 80  
 Ala Arg Arg Gln Gly Ser Glu His Thr Tyr Glu Ser Cys Gly Asp Gly  
 85 90 95  
 Val Pro Ala Pro Gln Lys Val Leu Phe Pro Thr Glu Arg Leu Ser Leu  
 100 105 110  
 Arg Trp Glu Arg Val Phe Arg Val Gly Ala Gly Leu His Asn Leu Gly  
 115 120 125  
 Asn Thr Cys Phe Leu Asn Ala Thr Ile Gln Cys Leu Thr Tyr Thr Pro  
 130 135 140  
 Pro Leu Ala Asn Tyr Leu Leu Ser Lys Glu His Ala Arg Ser Cys His

```

145             150             155             160
Gln Gly Ser Phe Cys Met Leu Cys Val Met Gln Asn His Ile Val Gln
165             170             175
Ala Phe Ala Asn Ser Gly Asn Ala Ile Lys Pro Val Ser Phe Ile Arg
180             185             190
Asp Leu Lys Lys Ile Ala Arg His Phe Arg Phe Gly Asn Gln Glu Asp
195             200             205
Ala His Glu Phe Leu Arg Tyr Thr Ile Asp Ala Met Gln Lys Ala Cys
210             215             220
Leu Asn Gly Cys Ala Lys Leu Asp Arg Gln Thr Gln Ala Thr Thr Leu
225             230             235             240
Val His Gln Ile Phe Gly Gly Tyr Leu Arg Ser Arg
245             250

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<210> 1881
<211> 358
<212> DNA
<213> Homo sapiens

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<400> 1881
natcaccatg gatggacgcc ggcaaagcaa catcaatcga tgtcaagcca cagacatctc
60
aaatccctcg agaaccgcaa agtttggcag agaagaagga tgaatgggag atcgcatata
120
tcaacacgaa gattaacgac gtctacaacc ctctcaacaa caatgtggag tgggtaagca
180
cgagaattga tctgctacag caagatttgg acaccactcg caagaaggat ctaaaaccag
240
ccacatcgat cgatatctgc accatcacat cgatcgatag caagtctgta gccatggaag
300
atagggttaca atcttataag gatatgcacg accgtttcac ctccacctatc aggcgata
358

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<210> 1882
<211> 115
<212> PRT
<213> Homo sapiens

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<400> 1882
Met Asp Ala Gly Lys Ala Thr Ser Ile Asp Val Lys Pro Gln Thr Ser
1             5             10             15
Gln Ile Pro Ala Glu Pro Gln Ser Leu Ala Glu Lys Lys Asp Glu Trp
20             25             30
Glu Ile Ala Tyr Ile Asn Thr Lys Ile Asn Asp Val Tyr Asn Pro Leu
35             40             45
Asn Asn Asn Val Asp Trp Leu Ser Thr Arg Ile Asp Leu Leu Gln Gln
50             55             60
Asp Leu Asp Thr Thr Arg Lys Lys Asp Leu Lys Pro Ala Thr Ser Ile
65             70             75             80
Asp Ile Cys Thr Ile Thr Ser Ile Asp Ser Lys Phe Val Ala Met Glu
85             90             95
Asp Arg Leu Gln Ser Tyr Lys Asp Met His Asp Arg Phe Thr Ser Pro
100            105            110
Ile Arg Arg

```

115

<210> 1883  
 <211> 367  
 <212> DNA  
 <213> Homo sapiens

<400> 1883  
 ggatcctatc atgaatctgc actctgacca gggaagtaac tcccttggtc gctcagactt  
 60  
 gggctgggag aatgatacta agacaccaga catcacatcc attgctccca ttcccactat  
 120  
 tgctgaaggc gatgagtctg tatttgtcaa ctccaattca aacagctcga tgggtgcctcc  
 180  
 tgtcctggag aacaatgctg ttgatctcac tgatgggctg acagatttgg aatcctatat  
 240  
 gaggttttct atggatggcg gngcaagtga ttcaattgat agccttctga accttgatgg  
 300  
 atcacaggat cttggttagca atatggacct ctggaccttc gatgacatgc ccacgctgg  
 360  
 cgatttn  
 367

<210> 1884  
 <211> 119  
 <212> PRT  
 <213> Homo sapiens

<400> 1884  
 Met Asn Leu His Ser Asp Gln Gly Ser Asn Ser Leu Gly Cys Ser Asp  
 1 5 10 15  
 Leu Gly Trp Glu Asn Asp Thr Lys Thr Pro Asp Ile Thr Ser Ile Ala  
 20 25 30  
 Pro Ile Pro Thr Ile Ala Glu Gly Asp Glu Ser Val Phe Val Asn Ser  
 35 40 45  
 Asn Ser Asn Ser Ser Met Val Pro Pro Val Leu Glu Asn Asn Ala Val  
 50 55 60  
 Asp Leu Thr Asp Gly Leu Thr Asp Leu Glu Ser Tyr Met Arg Phe Leu  
 65 70 75 80  
 Met Asp Gly Gly Ala Ser Asp Ser Ile Asp Ser Leu Leu Asn Leu Asp  
 85 90 95  
 Gly Ser Gln Asp Leu Gly Ser Asn Met Asp Leu Trp Thr Phe Asp Asp  
 100 105 110  
 Met Pro Ile Ala Gly Asp Xaa  
 115

<210> 1885  
 <211> 392  
 <212> DNA  
 <213> Homo sapiens

<400> 1885  
 nacgcgtatt cgcaagaat gtctttgctg cacagagaca gtcgtcgtcc tcgacaccat  
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gttcgacgat ctcggcatgt tgggaacccg gtgattttctc gcctgcggcg cacctcgtgg  
 120  
 ctgcgtagta cagctgctgt tgcgcggggg gccgcgaccg gtaccgggtt ccaaccactg  
 180  
 aactggtgga tcctcgatcat tcccggtctc gctgcgctca tcctgctggt gcgcaacgcc  
 240  
 actggctcggg ccgcggcagg actgggggtat ctcttcggca tcggtctggt taccaccacc  
 300  
 atttcctggg taggcgtcat cggcccgccg gtggcgatac ttctcatcgc tgatcatggg  
 360  
 ttgtgggtgc tgctggccgg gtggacgatt cg  
 392

&lt;210&gt; 1886

&lt;211&gt; 130

&lt;212&gt; PRT

&lt;213&gt; Homo sapiens

&lt;400&gt; 1886

Xaa Ala Tyr Ser Gln Arg Met Ser Leu Arg His Arg Asp Ser Arg Arg  
 1 5 10 15  
 Pro Arg His His Val Arg Arg Ser Arg His Val Gly Asn Pro Val Ile  
 20 25 30  
 Ser Arg Leu Arg Arg Thr Ser Trp Leu Arg Ser Thr Ala Ala Val Ala  
 35 40 45  
 Ala Gly Ala Ala Thr Gly Thr Gly Phe Gln Pro Leu Asn Trp Trp Ile  
 50 55 60  
 Leu Val Ile Pro Gly Leu Ala Ala Leu Ile Leu Leu Val Arg Asn Ala  
 65 70 75 80  
 Thr Gly Arg Ala Ala Ala Gly Leu Gly Tyr Leu Phe Gly Ile Gly Leu  
 85 90 95  
 Phe Thr Thr Thr Ile Ser Trp Val Gly Val Ile Gly Pro Pro Val Ala  
 100 105 110  
 Ile Leu Leu Ile Ala Val Met Ala Leu Trp Cys Leu Leu Ala Gly Trp  
 115 120 125  
 Thr Ile  
 130

&lt;210&gt; 1887

&lt;211&gt; 363

&lt;212&gt; DNA

&lt;213&gt; Homo sapiens

&lt;400&gt; 1887

cgcgagtcca ttcggacctt tgaggacgtt gccaaagcgtc tcaatgggga ccagccgate  
 60  
 gacttcttggg tgcaggggaac tttatatccc gatgtcgctcg agtctggtgg cgggtgagggc  
 120  
 gctgcccaata tcaagagtea ccataatggt ggtgggctcc ctgacgacct ccagttcagt  
 180  
 ctcggtgagc cattgcgcac cctctttaag gacgaggtgc gagccgtcgg actcgaactt  
 240  
 ggtctgcccg aggacatcgt ctggcgctcag ccttcccg gcccgggggt ggctatccgc  
 300

attattggcg aagtcaccgc ggagcgtctg gaggtgctac gcactgccga tgccatcacg  
 360  
 cgt  
 363

<210> 1888  
 <211> 121  
 <212> PRT  
 <213> Homo sapiens

<400> 1888  
 Arg Glu Phe Ile Arg Thr Phe Glu Asp Val Ala Lys Arg Leu Asn Gly  
 1 5 10 15  
 Asp Gln Pro Ile Asp Phe Leu Val Gln Gly Thr Leu Tyr Pro Asp Val  
 20 25 30  
 Val Glu Ser Gly Gly Gly Glu Gly Ala Ala Asn Ile Lys Ser His His  
 35 40 45  
 Asn Val Gly Gly Leu Pro Asp Asp Leu Gln Phe Ser Leu Val Glu Pro  
 50 55 60  
 Leu Arg Thr Leu Phe Lys Asp Glu Val Arg Ala Val Gly Leu Glu Leu  
 65 70 75 80  
 Gly Leu Pro Glu Asp Ile Val Trp Arg Gln Pro Phe Pro Gly Pro Gly  
 85 90 95  
 Leu Ala Ile Arg Ile Ile Gly Glu Val Thr Ala Glu Arg Leu Glu Val  
 100 105 110  
 Leu Arg Thr Ala Asp Ala Ile Thr Arg  
 115 120

<210> 1889  
 <211> 530  
 <212> DNA  
 <213> Homo sapiens

<400> 1889  
 gcaccagatc tgctcatggc gcgcattgcg acggcaacgc agtcgatccg gcttgggtct  
 60  
 ggtgggggtga tggccatgca ctacgggtcg ctgcaaatag cggaacgggt ttcgaccctc  
 120  
 acagcgctct tcggtgatcg tategacatg gggctggggc gggctcccgc cggtgacatg  
 180  
 ctctccgcc atgccctcaa tcagggggcag gtcattccgc ctgaggccat taattccctc  
 240  
 atcgccgaaa cggtagggtt cgtgcgcgaa atgctaccgt cgaagcatcc gtacgcaaag  
 300  
 gtgctcgtga ccccggcagg tcagatccag ccacagacgt ggctgctggg atcgctgggc  
 360  
 cagtcagcag cgtgggctgg tgagcagggt atggactacg cctacgccca gtttttcacc  
 420  
 gggcgccagg acaccgggat catggatcac tacgcgcgc acctgtccga cggcttcccc  
 480  
 ggcaggaccc tctcagcagt gtgtgtatcg gctgctccga cgcgtccgga  
 530

<210> 1890

&lt;211&gt; 176

&lt;212&gt; PRT

&lt;213&gt; Homo sapiens

&lt;400&gt; 1890

```

Ala Pro Asp Leu Leu Met Ala Arg Ile Ala Thr Ala Thr Gln Ser Ile
 1           5           10           15
Arg Leu Gly Ser Gly Gly Val Met Ala Met His Tyr Gly Ser Leu Gln
          20           25           30
Ile Ala Glu Arg Phe Ser Thr Leu Thr Ala Leu Phe Gly Asp Arg Ile
          35           40           45
Asp Met Gly Leu Gly Arg Ala Pro Gly Gly Asp Met Leu Ser Ala His
          50           55           60
Ala Leu Asn Gln Gly Gln Val Ile Arg Pro Glu Ala Ile Asn Ser Leu
65           70           75           80
Ile Ala Glu Thr Val Gly Phe Val Arg Glu Met Leu Pro Ser Lys His
          85           90           95
Pro Tyr Ala Lys Val Val Val Thr Pro Ala Gly Gln Ile Gln Pro Gln
          100          105          110
Thr Trp Leu Leu Gly Ser Ser Gly Gln Ser Ala Ala Trp Ala Gly Glu
          115          120          125
Gln Gly Met Asp Tyr Ala Tyr Ala Gln Phe Phe Thr Gly Arg Gln Asp
          130          135          140
Thr Gly Ile Met Asp His Tyr Arg Ala His Leu Ser Asp Gly Phe Pro
145          150          155          160
Gly Arg Thr Leu Ser Ala Val Cys Val Ser Ala Ala Pro Thr Arg Pro
          165          170          175

```

&lt;210&gt; 1891

&lt;211&gt; 423

&lt;212&gt; DNA

&lt;213&gt; Homo sapiens

&lt;400&gt; 1891

```

agatctcagg gagacagagg ggccccgggat aggaagaata tgtgggcacc tctccacag
60
tcttccatct gcacaaggct acccactctg cagatggccc ctgcttgtag agagatccag
120
cgtcaattta cagaggcagc ccagcttctt atcaactttc tggcctggct taacgggtga
180
atggggcagg ggcaaggcct tgaccacact catgtttctc ccccgccctc ctccactctg
240
ggattttgta cgggtatggg gaggcactac ggttgtagat tttagcttttc agcgtggata
300
caagcaccca agtgtcccag accacagcag aaaccgtgtt gctgccgttt ccaacctgtc
360
gatttggtct cttgtgcccg ttctgaccaa cagaattgct actgactgac aaatcccttg
420
tgc
423

```

&lt;210&gt; 1892

&lt;211&gt; 121

&lt;212&gt; PRT

&lt;213&gt; Homo sapiens

&lt;400&gt; 1892

```

Met Trp Ala Pro Leu Pro Gln Ser Ser Ile Cys Thr Arg Leu Pro Thr
 1           5           10           15
Leu Gln Met Ala Pro Ala Cys Arg Glu Ile Gln Arg Gln Phe Thr Glu
          20           25           30
Ala Ala Gln Leu Pro Ile Asn Phe Leu Ala Trp Leu Asn Gly Val Met
          35           40           45
Gly Arg Gly Gln Gly Leu Asp His Thr His Val Ser Pro Pro Ala Ser
          50           55           60
Ser Thr Leu Gly Phe Cys Thr Gly Met Gly Arg His Tyr Gly Cys Arg
          65           70           75           80
Phe Ser Phe Ser Ala Trp Ile Gln Ala Pro Lys Cys Pro Arg Pro Gln
          85           90           95
Gln Lys Pro Cys Cys Cys Arg Phe Gln Pro Ala Asp Leu Val Ser Cys
          100          105          110
Cys Arg Ser Asp Gln Gln Asn Cys Tyr
          115          120

```

&lt;210&gt; 1893

&lt;211&gt; 886

&lt;212&gt; DNA

&lt;213&gt; Homo sapiens

&lt;400&gt; 1893

```

accggtgggtg ctgaaccggc ccgagttgcc ctctctagcc ggatatacgt cgaggggacgt
60
catgacgctg aactcgtcga aaagatatgg ggcgacgacc tgcgccacgt cggggctggt
120
gtggaatata tgggtggcat ggacgacctc gtcgggatcg tcgcccagtt taagcctggg
180
ccggggcctc gccttgccgt gttggttgac cacctcgttg ccgacaccaa agagtcacgg
240
gtacgggacg aagtcgtcgc tgggtgggtat agcaggtatg tcatgattac cggtcatcgc
300
tttattgaca tctggcaggc catcaaacct caacgaattg gccgtcaaga atggcctgag
360
gtcccgatgg acgaagactt caaactcggc accctgaagc gtctggggct gcctcactcg
420
accgaagctg acgtcggtaa ggcctggcag gccatgctgg cacgagtcgc cgactggcac
480
gatttagacc cccgctttaa caggagatg gagaaactta tcgatttcgt cacgcgtgac
540
catgtcgacg agctggacaa tggggagatg gcatgagtat tgacgtcgac acgggtgtctg
600
acctcatccg ggtatgtagt gccagggtta tcgatccccg gttccggacc ctccacgatc
660
atcaaatcca ccagaaaaag cccggggact tcgttactga tgccgatcgt caggccgagt
720
gcgagctggg tgccgctgtg accaagtatg ccggcggtat tgcgtggggg gaggaatcag
780
ccttcgccga cccaaccatc cttgatgccg ttccgatgc tgacctggcc tgggtcatcg
840

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acccattga tggcactaag aacttcgtgc acgggtctgt tgatca  
886

<210> 1894

<211> 191

<212> PRT

<213> Homo sapiens

<400> 1894

```

Thr Gly Gly Ala Glu Pro Ala Arg Val Ala Leu Pro Ser Arg Ile Tyr
 1             5             10             15
Val Glu Gly Arg His Asp Ala Glu Leu Val Glu Lys Ile Trp Gly Asp
      20             25             30
Asp Leu Arg His Val Gly Val Val Glu Tyr Met Gly Gly Met Asp
      35             40             45
Asp Leu Val Gly Ile Val Ala Glu Phe Lys Pro Gly Pro Gly His Arg
      50             55             60
Leu Gly Val Leu Val Asp His Leu Val Ala Asp Thr Lys Glu Ser Arg
      65             70             75
Val Ala Asp Glu Val Arg Arg Gly Gly Tyr Ser Glu Tyr Val Met Ile
      85             90             95
Thr Gly His Arg Phe Ile Asp Ile Trp Gln Ala Ile Lys Pro Gln Arg
      100            105            110
Ile Gly Arg Gln Glu Trp Pro Glu Val Pro Met Asp Glu Asp Phe Lys
      115            120            125
Leu Gly Thr Leu Lys Arg Leu Gly Leu Pro His Ser Thr Gln Ala Asp
      130            135            140
Val Gly Lys Ala Trp Gln Ala Met Leu Ala Arg Val Arg Asp Trp His
      145            150            155
Asp Leu Asp Pro Arg Phe Asn Thr Glu Met Glu Lys Leu Ile Asp Phe
      165            170            175
Val Thr Arg Asp His Val Asp Glu Leu Asp Asn Gly Glu Met Ala
      180            185            190

```

<210> 1895

<211> 2555

<212> DNA

<213> Homo sapiens

<400> 1895

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ttttttgttt ttgtttttgt tttgttttc tttagaattt ttccctgttt cccaccttct
 120
cttccccctg tgccaaggtc taactcactg tagtctggat gtgggtgtat gttcatgtac
 180
acaactttag aaagttgctt gcagaacaaa aaggctacac aaaagccccc ttggtctcaa
 240
taccctcaag tggatggcag aggtctctgt tgaaagtggg caatttgcaa tttttgcatt
 300
aggatttcag atgcatgccca ggtttccact gattgccaga actcgagatc actacacatg
 360
gatcccccaa atcaacatgg cagtggcagt tcgttagttg tgatccagca gcctttcttg
 420

```

gatagccgtc agagattaga ctatgagaga gagattcagc ctactgctat ttgtgcctta  
480  
gaccagatca aggccataag aggcagcaat gaatacacag aaggcccttc ggtggtgaaa  
540  
agacctgtctc ctccggacagc accaagacaa gaaaagcatg aaaggactca tgaaatcata  
600  
ccaattaatg tgaataataa ctacgagcac agacacacaa gccacctggg acatgcagta  
660  
ctcccaagta atgccagggg ccccatcttg agcagatcaa ccagcactgg aagtgcagcc  
720  
agctctggga gcaacagcag tgcctcttct gaacaggggac tggtaggaag gtcaccacca  
780  
accagaccag tccttggtca taggtctgaa agggcaatcc ggaccagcc caagcaactg  
840  
attgtggatg acttgaaggg ttccttgaaa gaggacctga cacagacaa gtctatttgt  
900  
gaacagtgtg ggaagtgcga gtgtggagaa tgactgtctc ccaggacctc accatcctgt  
960  
ttggcctgta accggcagtg cctttgtctc gctgagagca tggtaggaata tggaacctgc  
1020  
atgtgcttag tcaagggatc ctctaccac tgctccaatg acgacgaagg ggattcctat  
1080  
tcagataatc cttgctcctg ttcacaatca cactgtctgt ctagatacct gtgtatggga  
1140  
gccatgtctt tatttttacc ttgcttactc tgttatccct ctgctaaagg atgcttgaag  
1200  
ctgtgcagga ggtgttatga ctggatccat cggccagggt gcagatgtaa gaactccaac  
1260  
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1320  
ttggaggttg gttgtacctc ctgaacttct agctttcaag ttgtggctgt tttttgtttt  
1380  
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1440  
gccaaaggtc aactcatgga tttttctctt tctcatgga tgatcttcag caagagtgga  
1500  
ctgggaagct gcacctggct cccactttca acaagagcct ctgccatcca cttgagggtg  
1560  
ttgagagcca gtgggctttt gtgtagcctt ttgttctctg aagcaacttt ctaagattgt  
1620  
gtacatgaac atacaccac atccagacta cagtgattta gagtgtttt gattgggtac  
1680  
cgtgggagca gggaaatttg ttttttaaaa agcaactgtt taattgtcta aataagctat  
1740  
gtattaaatc tgtctccagt tagggctatc ttcctagcat aggccctta agtagcatgg  
1800  
gggatataat ttttgcata acgtaaaaat tttcttttaa cactgcccct ctctttctc  
1860  
cttcaagggt ctttccccct cagttttgtt gttgtcttac tctggagatg ccaagtgtat  
1920  
ttttctcttc tatgtaattt tagattcgcc ttacaatgta aatcttcaca ttggagataa  
1980  
tattggttgg accttgccca tcttcaactc agccttcgta ttgtgaagg actcagccac  
2040

cttcctctctt caccctcatgc ttctcaccaa atttttgttg tcattgaggg cacttgggata  
 2100  
 actcaagttg atatttatag ctgatcaatc tatatgtgtc acagaactat gctgcctaaa  
 2160  
 gtgatctttg ctccttaatg gtccttttgg ccccttgga agttaacagc tgagtaattc  
 2220  
 taatctcttc tgtgttttcc ttgccttaac cacaattgtt ggtgcttttt gtatatttta  
 2280  
 tgtataaatc acaaagtga attctgacta tttttaagac aaaagtctgt taaacttttt  
 2340  
 tattgtaaag aatatattatt atgcgaatct ctattatttt atgggtattta ttgcaaaaga  
 2400  
 ctgttgaaat gtactcatgt ttgaatataa caaaatatca atacttaacg gaaaataagg  
 2460  
 tgacacgaag aaagtacata tggttaactat aatgcagaaa atatattaat taatgaaaaa  
 2520  
 aaaaaaaaaa aaaaaaaaaa aaaaaaaaaa aaaaa  
 2555

<210> 1896

<211> 139

<212> PRT

<213> Homo sapiens

<400> 1896

Cys	Glu	Gln	Cys	Gly	Lys	Cys	Lys	Cys	Gly	Glu	Cys	Thr	Ala	Pro	Arg
1			5					10						15	
Thr	Leu	Pro	Ser	Cys	Leu	Ala	Cys	Asn	Arg	Gln	Cys	Leu	Cys	Ser	Ala
			20					25					30		
Glu	Ser	Met	Val	Glu	Tyr	Gly	Thr	Cys	Met	Cys	Leu	Val	Lys	Gly	Ile
		35				40					45				
Phe	Tyr	His	Cys	Ser	Asn	Asp	Asp	Glu	Gly	Asp	Ser	Tyr	Ser	Asp	Asn
	50				55					60					
Pro	Cys	Ser	Cys	Ser	Gln	Ser	His	Cys	Cys	Ser	Arg	Tyr	Leu	Cys	Met
	65				70					75				80	
Gly	Ala	Met	Ser	Leu	Phe	Leu	Pro	Cys	Leu	Leu	Cys	Tyr	Pro	Pro	Ala
			85					90					95		
Lys	Gly	Cys	Leu	Lys	Leu	Cys	Arg	Arg	Cys	Tyr	Asp	Trp	Ile	His	Arg
		100						105					110		
Pro	Gly	Cys	Arg	Cys	Lys	Asn	Ser	Asn	Thr	Val	Tyr	Cys	Lys	Leu	Glu
		115				120						125			
Ser	Cys	Pro	Ser	Arg	Gly	Gln	Gly	Lys	Pro	Ser					
	130					135									

<210> 1897

<211> 938

<212> DNA

<213> Homo sapiens

<400> 1897

cgctcatggct gctacgtgtg cggnaagagc tttgcctggc gctccacact ggtggagcac  
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 gtctacagtc acactggcga gaagcccttc cactgcactg actgcggcaa gggcttcggc  
 120

cagcgttctt ccctgagcaa acaccggggc atccatcgtg gggagcggcc ccaccgctgt  
 180  
 ctggagtgtg gccgggacct cagcgagcgc tcggcgctga cttcgacact gcgcgtccac  
 240  
 accggcgaga aacctatgg ctgcgccgac tgtggccggc gcttcagcca gagctctgcc  
 300  
 ctctaccagc accggcgctg gcacagcggc gagacccctt tccctgccc ggactgtggc  
 360  
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 420  
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 480  
 cgggcggcac actccggcga gtgcccttat gtttgtgacc agtgtggcaa acgtttctcc  
 540  
 cagcgcaaga acctctccca gcaccaggct atccatacag gggagaagcc ctatcactgc  
 600  
 cctgactgtg gtcgtgctt ccggaggagc cggctccttg ccaatcaccc gaccacacac  
 660  
 acagggtgaaa aacccacca gtgccctagc tgtggacgtc gcttcgccta ccctccctg  
 720  
 ctggccagcc accggcgctg gcactcgggc gagcggccct atgcctgcga cctttgctcc  
 780  
 aagcgttttg ctacgtggag ccacctggcc cagcaccagc tgctgcacac gggggagaag  
 840  
 cctttccctt gcctcgagtg tggccgggct tccgccagag gtggtctctg gctgtccaca  
 900  
 agtgtagccc caaggcccca aactgtagcc ctagatct  
 938

&lt;210&gt; 1898

&lt;211&gt; 312

&lt;212&gt; PRT

&lt;213&gt; Homo sapiens

&lt;400&gt; 1898

Arg His Gly Cys Tyr Val Cys Gly Lys Ser Phe Ala Trp Arg Ser Thr  
 1 5 10 15  
 Leu Val Glu His Val Tyr Ser His Thr Gly Glu Lys Pro Phe His Cys  
 20 25 30  
 Thr Asp Cys Gly Lys Gly Phe Gly His Ala Ser Ser Leu Ser Lys His  
 35 40 45  
 Arg Ala Ile His Arg Gly Glu Arg Pro His Arg Cys Leu Glu Cys Gly  
 50 55 60  
 Arg Ala Phe Thr Gln Arg Ser Ala Leu Thr Ser His Leu Arg Val His  
 65 70 75 80  
 Thr Gly Glu Lys Pro Tyr Gly Cys Ala Asp Cys Gly Arg Arg Phe Ser  
 85 90 95  
 Gln Ser Ser Ala Leu Tyr Gln His Arg Arg Val His Ser Gly Glu Thr  
 100 105 110  
 Pro Phe Pro Cys Pro Asp Cys Gly Arg Ala Phe Ala Tyr Pro Ser Asp  
 115 120 125  
 Leu Arg Arg His Val Arg Ile His Thr Gly Glu Lys Pro Tyr Pro Cys  
 130 135 140  
 Pro Asp Cys Gly Arg Arg Phe Ser Ser Ser Ser Leu Leu Val Ser His

```

145                150                155                160
Arg Arg Ala His Ser Gly Glu Cys Pro Tyr Val Cys Asp Gln Cys Gly
165                170                175
Lys Arg Phe Ser Gln Arg Lys Asn Leu Ser Gln His Gln Val Ile His
180                185                190
Thr Gly Glu Lys Pro Tyr His Cys Pro Asp Cys Gly Arg Cys Phe Arg
195                200                205
Arg Ser Arg Ser Leu Ala Asn His Arg Thr Thr His Thr Gly Glu Lys
210                215                220
Pro His Gln Cys Pro Ser Cys Gly Arg Arg Phe Ala Tyr Pro Ser Leu
225                230                235                240
Leu Ala Ser His Arg Arg Val His Ser Gly Glu Arg Pro Tyr Ala Cys
245                250                255
Asp Leu Cys Ser Lys Arg Phe Ala Gln Trp Ser His Leu Ala Gln His
260                265                270
Gln Leu Leu His Thr Gly Glu Lys Pro Phe Pro Cys Leu Glu Cys Gly
275                280                285
Arg Ala Ser Ala Arg Gly Gly Leu Trp Leu Ser Thr Ser Val Ala Pro
290                295                300
Arg Pro Gln Thr Val Ala Leu Asp
305                310

```

<210> 1899

<211> 508

<212> DNA

<213> Homo sapiens

<400> 1899

```

aaatttgctt ccctaattgg caaggtgcaa gccctggaac agcgcgacca gctgctggag
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acacgctgga gttctctgca gggccaggac tcagccatct tcgacctcgg gcatctctat
120
gaggaaatat caggccggct gcggagggaa ctgggccaaa gggacaggaa ccgggggcag
180
ctggaggcca ccctgctgca ggtgttgaaa aaggtggagg agtttcgaat cagggtattga
240
gatgagatct ccaagcgcac agacatggag ttacaccttg ttacagtgaa gaaggacctg
300
gatgcagagt gtcttcatcg gactgaactg gaaaccaagt taaaagcct ggagagcttc
360
gtggagtgtg tgaaaacat ctatgagcag gagctgaagg acctggcagc acaggtgaag
420
gatgtgtcgg tgacctcgg catggacagc cgctgccaca tcgacctgag cggcatcgtg
480
gaggaggtga aggccagta tgacgccg
508

```

<210> 1900

<211> 79

<212> PRT

<213> Homo sapiens

<400> 1900

```

Lys Phe Ala Ser Leu Ile Gly Lys Val Gln Ala Leu Glu Gln Arg Asp

```

```

      1           5           10           15
Gln Leu Leu Glu Thr Arg Trp Ser Phe Leu Gln Gly Gln Asp Ser Ala
      20           25           30
Ile Phe Asp Leu Gly His Leu Tyr Glu Glu Ile Ser Gly Arg Leu Arg
      35           40           45
Arg Glu Leu Gly Gln Arg Asp Arg Asn Arg Gly Gln Leu Glu Ala Thr
      50           55           60
Leu Leu Gln Val Leu Lys Lys Val Glu Glu Phe Arg Ile Arg Tyr
      65           70           75

```

&lt;210&gt; 1901

&lt;211&gt; 453

&lt;212&gt; DNA

&lt;213&gt; Homo sapiens

&lt;400&gt; 1901

```

acgcgtggac cagcatgcgc cggatcgggc tcggcgccat gcacacctcg gacctggcgg
60
cgggtgttcgg cgatgcgaag gcaaccgcgc cttccaagtt cgacccgttc cagccgcgcg
120
aggaattcca cgaggtcagc gccgccatgc agttccactg gggctccttc ttccacaacg
180
cgcatccggg cgagaagtgg ccgggtctacg gtttcgcgag cgacacggag cccggccgcg
240
cgaccgcgat cttcgcggcg aagtcctccg tggagtacga cccaaggcg gcgcagcgcc
300
gcgcgtggga gggctttgac atgcgcgaat ggggcatgca caggcaggac ctggtggaaa
360
cgctcaccga ttccatcgcc gacgagggca acgcttagcg acgccagcgc caccgagttt
420
agagaaatga aagaaatatt aatagagggg gga
453

```

&lt;210&gt; 1902

&lt;211&gt; 151

&lt;212&gt; PRT

&lt;213&gt; Homo sapiens

&lt;400&gt; 1902

```

Thr Arg Gly Pro Arg Cys Ala Gly Ser Gly Ser Ala Pro Cys Thr Pro
      1           5           10           15
Arg Thr Trp Arg Arg Cys Ser Ala Met Arg Arg Gln Pro Ala Leu Pro
      20           25           30
Ser Ser Thr Arg Ser Ser Arg Ala Arg Asn Ser Thr Arg Ser Ala Pro
      35           40           45
Pro Cys Ser Ser Thr Gly Ala Pro Ser Ser Thr Thr Arg Ile Arg Ala
      50           55           60
Arg Ser Gly Arg Ser Thr Val Ser Ala Ala Thr Arg Ser Pro Ala Ala
      65           70           75           80
Arg Pro Arg Ser Ser Arg Arg Ser Pro Pro Trp Ser Thr Thr Pro Arg
      85           90           95
Arg Arg Ser Ala Ala Arg Gly Arg Ala Leu Thr Cys Ala Asn Gly Ala
      100          105          110
Cys Thr Gly Arg Thr Trp Trp Lys Arg Ser Pro Ile Pro Ser Pro Thr

```

```

      115              120              125
Arg Ala Thr Leu Ser Asp Ala Ser Ala Thr Glu Phe Arg Glu Met Lys
      130              135              140
Glu Ile Leu Ile Glu Gly Gly
145              150

```

<210> 1903  
 <211> 531  
 <212> DNA  
 <213> Homo sapiens

```

<400> 1903
ccggcgaggg agctgttccg ggacgccgc tccccgccg cggactcctc gctcttctgc
60
gacttgtcta cgccgctggc ccagttccgc gaggacatca cgtggaggcg gccccagaga
120
atttgtgcca acccccgctt gtttccaaat gaccaacggg aagggcaggt gaagcagggg
180
ctgctggggg attgctgggt cctgtgtgcc tgcgccgcgc tgcagaagag caggcacctc
240
ctggaccagg tcattctctgc gggacagccg agctggggccg accaggagta cgggggctcc
300
ttcacctgtc gcttttgga gtttggaagg tgggtggagg gtccatgggt cccttcgagc
360
ccctgtgggc ggggcagggt gcggatgccc tgggtggacct gaccggcggc ctggcagaaa
420
gatggaacct gaagggcgta gcaggaagcg gagccagca ggacaggcca ggccgctggg
480
agcacaggac ttgtcggcag ctgctccacc tgaaggacca gtgtctgac a
531

```

<210> 1904  
 <211> 133  
 <212> PRT  
 <213> Homo sapiens

```

<400> 1904
Pro Ala Arg Glu Leu Phe Arg Asp Ala Ala Phe Pro Ala Ala Asp Ser
1          5          10          15
Ser Leu Phe Cys Asp Leu Ser Thr Pro Leu Ala Gln Phe Arg Glu Asp
20         25         30
Ile Thr Trp Arg Arg Pro Gln Arg Ile Cys Ala Asn Pro Arg Leu Phe
35         40         45
Pro Asn Asp Gln Arg Glu Gly Gln Val Lys Gln Gly Leu Leu Gly Asp
50         55         60
Cys Trp Phe Leu Cys Ala Cys Ala Ala Leu Gln Lys Ser Arg His Leu
65         70         75         80
Leu Asp Gln Val Ile Pro Ala Gly Gln Pro Ser Trp Ala Asp Gln Glu
85         90         95
Tyr Arg Gly Ser Phe Thr Cys Arg Phe Trp Gln Phe Gly Arg Trp Val
100        105        110
Glu Gly Pro Trp Val Pro Ser Ser Pro Cys Gly Arg Gly Arg Trp Arg
115        120        125
Met Pro Trp Trp Thr

```

130

<210> 1905  
 <211> 387  
 <212> DNA  
 <213> Homo sapiens

<400> 1905  
 acgctgtggc tgatcggcat gctctgggca ctgggggtgg tggcggaagt gctgatgttc  
 60  
 ctggccatga gccggatcct cgcgcgcttt tcgggccgtc ggggtgctgct ggccagtttc  
 120  
 ctctctggccg ccgtgcgctg gttgctgctg ggcgcgcttg ccgatcacct ggcgggtgctg  
 180  
 ttgttcgccc aggtgctgca cgcggcgacc ttgccagct ttcacgcctc tgccattcat  
 240  
 ttcgtgcaac gtacttccg cgcgcgcnc acaaggccag ggcaggcggt atacgctgca  
 300  
 ctggcccggt cgggcggggc tttgggcgcg ttgtacgctg gttatagctg gaacagcctg  
 360  
 gggcccgacct ggactttcag catcggt  
 387

<210> 1906  
 <211> 129  
 <212> PRT  
 <213> Homo sapiens

<400> 1906  
 Thr Arg Gly Leu Ile Gly Met Leu Trp Ala Leu Gly Val Val Ala Glu  
 1 5 10 15  
 Val Leu Met Phe Leu Ala Met Ser Arg Ile Leu Ala Arg Phe Ser Val  
 20 25 30  
 Arg Arg Val Leu Leu Ala Ser Phe Leu Leu Ala Val Arg Trp Leu  
 35 40 45  
 Leu Leu Gly Ala Leu Ala Asp His Leu Ala Val Leu Leu Phe Ala Gln  
 50 55 60  
 Val Leu His Ala Ala Thr Phe Ala Ser Phe His Ala Ser Ala Ile His  
 65 70 75 80  
 Phe Val Gln Arg Ser Phe Gly Ala Arg Xaa Ala Arg Pro Gly Gln Ala  
 85 90 95  
 Leu Tyr Ala Ala Leu Ala Gly Thr Gly Gly Ala Leu Gly Ala Leu Tyr  
 100 105 110  
 Ala Gly Tyr Ser Trp Asn Ser Leu Gly Pro Thr Trp Thr Phe Ser Ile  
 115 120 125  
 Val

<210> 1907  
 <211> 333  
 <212> DNA  
 <213> Homo sapiens

<400> 1907

acgcgttttcg accagcgcat ccgtgtcggc ggcattggcgg aaatcgtcgg cttegacaag  
 60  
 aaagtcgcgg ccgcgcggcg cgaaacgcgc gagatgtgcg tcaacgacct gttcccgagg  
 120  
 ggccggcgaca cgtcgaaggc cacgtttcgg acgggcctgc gcccgatgac gccggacggc  
 180  
 acgccgatcg tcggccgcac gccgggtgcg aacctgttcc tgaacaccgg ccacggcacg  
 240  
 ctccgctgga caatgggtgtg cggctcgggc caactgctcg ccgacctgat ctccggcaag  
 300  
 atgcccgcga tccaggccga cgacctgtct nnc  
 333

&lt;210&gt; 1908

&lt;211&gt; 111

&lt;212&gt; PRT

&lt;213&gt; Homo sapiens

&lt;400&gt; 1908

Thr	Arg	Phe	Asp	Gln	Arg	Ile	Arg	Val	Gly	Gly	Met	Ala	Glu	Ile	Val
1				5					10				15		
Gly	Phe	Asp	Lys	Lys	Leu	Arg	Ala	Ala	Arg	Arg	Glu	Thr	Leu	Glu	Met
			20				25					30			
Cys	Val	Asn	Asp	Leu	Phe	Pro	Gly	Gly	Gly	Asp	Thr	Ser	Lys	Ala	Thr
		35				40					45				
Phe	Trp	Thr	Gly	Leu	Arg	Pro	Met	Thr	Pro	Asp	Gly	Thr	Pro	Ile	Val
	50				55				60						
Gly	Arg	Thr	Pro	Val	Ser	Asn	Leu	Phe	Leu	Asn	Thr	Gly	His	Gly	Thr
65				70			75						80		
Leu	Gly	Trp	Thr	Met	Val	Cys	Gly	Ser	Gly	Gln	Leu	Leu	Ala	Asp	Leu
			85				90						95		
Ile	Ser	Gly	Lys	Met	Pro	Ala	Ile	Gln	Ala	Asp	Asp	Leu	Ser	Xaa	
		100					105						110		

&lt;210&gt; 1909

&lt;211&gt; 2767

&lt;212&gt; DNA

&lt;213&gt; Homo sapiens

&lt;400&gt; 1909

ngactgccgg tcgttcggac gtcttgccctg tcgcgtggag gagaggctcg ggctctccag  
 60  
 gaaggtggct gcgcgcacaa aatgaagata ttcgtgggca acgtcgacgg gccggatacg  
 120  
 actccggagg agctggcagc cctctttgcy ccctacggca cggcatgag ctgcgcgctc  
 180  
 atgaaacagt tcgccttcgt gcacatgcgc gagaacccgg gcgcgctgcy cgccatcgaa  
 240  
 gccctgcacy gccacgagct gcggccgggg gcgcgctcgy tgggtggaat gtcgcgccca  
 300  
 aggcctctta atacttgga gattttcgtg ggcaatgtgt cggctgcctg cagagccag  
 360  
 gaactgcgca gcctcttcga gcgcgcggga cgcgtcatcg agtgtgacgt ggtgaaagac  
 420

tacgcgtttg ttcacatgga gaaggaagca gatgccaaag ccgcaatcgc gcagctcaac  
480  
ggcaaagaag tgaaggggcaa gcgcatcaac gtggaactct ccaccaaggg tcagaagaag  
540  
gggccttgcc tggctgtcca gtctggggac aagaccaaga aaccaggggc tggggatacg  
600  
gccttccctg gaactggtgg cttctctgcc accttcgact accagcaggc ttttggaac  
660  
agcactggtg gctttgatgg gcaagcccg cagcccacac caccctctt tggctcgcgac  
720  
cgcagccctc tgcgcgcttc acctccccga gcctcttatg tggctcctct gacggcccag  
780  
ccagctacct accggggccca gccgtccgtg tcaactgggag ctgcctacag ggcccagcct  
840  
tgtgcctctt tgggtgttgg ctatcggaact cagcccatga cagccaggc agcctcttac  
900  
cgcgctcagc cctctgtctc ccttggggca ccatacaggg gccagctggc tagtcctagc  
960  
tcccagtcgt ctgcagcttc ttcactcggc ccatatggtg gagcccagcc ctgagcctcg  
1020  
gcccttttct cctatggggg tcaggcagct gcagcttctt cgctcaactc ctatggggct  
1080  
cagggttctc cccttgccctc ctatggtaac cagccatcct cttacggcgc ccaggctgcc  
1140  
tcttctcatg ggggtctgtc agctgcttct tctacaaca cccagggagc agcttctctc  
1200  
ttaggtctct acgggggtca ggcagcctcc tatggggccc agtctgcagc ctctcacta  
1260  
gcttatggag cccaggcagc ttcataaat gccagccct cggcctctta caatgcccag  
1320  
tctgccccat atgctgcaca gcaggctgct tctactctt cccaacctgc tgcctatgtg  
1380  
gcacagccag ccacagctgc tgcctatgcc agccagccag cagcctacgc gcacaagcc  
1440  
actaccccaa tggctggctc ctatggggcc cagccggttg tgcagaccca gctgaatagt  
1500  
tacggggggc aagcatcaat gggcctttca ggctcctatg gggctcagtc ggctgctgcg  
1560  
gccactggct cctatggtgc cgcagcagcc tacggggccc aacctctgc cactctggca  
1620  
gtcctctacc gcaactcagtc atcagcctca ttggctgctt cctatgctgc ccagcagcat  
1680  
ccccaggctg ctgcctccta ccgcggccag ccaggcaatg cctacgatgg ggcaggtcag  
1740  
cgtctgcag cctacctgtc catgtcccag ggggcccgtt ccaacgccaa cagcaccctg  
1800  
ccgcctctat agcgtaccgc cctctcccca cccggggcca gctacgacga tcctacaaa  
1860  
aaggctgtgc ccatgtcgaa aaggatatgt tccgaccggc gtttagccga gctctctgat  
1920  
taccgccgtt tatcagagtc gcagctttcg ttccgcccgt cgccgacaaa gtccctcgctg  
1980  
gattaccgtc gcctgcccga tgcccattcc gattacgac gctattcggg ctctataat  
2040

gattacctgc gggcgggtca gatgcactct ggctaccagc gccgcatgta gggccatcct  
 2100  
 gggatggggc accacagggga gggagggaga aaagaggttg gtagggttac agatccagggt  
 2160  
 tataactact ctggcccata cctttctcgg ttgtgggttt tcatgccctc taccatgtgg  
 2220  
 gccttcccca ggagatgac ctgttaagtg ttccggcagta acctactttg ttccttcgcc  
 2280  
 tcagcagcaa atcttctctac tggctctaga tctgcggttt cccctctacc ctgcctctg  
 2340  
 tctccccaga atgggaattt cttttatgtt tttatttttt tcttggtctc cttttatttt  
 2400  
 tgtgcgcgat atttaaggtc gtctggatgg ggaagcaacc tgcagctgag gtcgccggcg  
 2460  
 cctttttctt tttagatggg aaggaggcca ggaagggtc agcttaacca tttctatgt  
 2520  
 gccaaagtgt gccagcagtc cagggtacc cgaactgtccc tctgtagact gttgagactg  
 2580  
 agttcctgtt gggacagtca gttggtatgt atccaagtcc ctgctgacca ctaatgttct  
 2640  
 agctgatggt gagcggcaca gtcccaactc cccatctccc caagtaggtg gtgttagaaa  
 2700  
 accttaattt tttttccctt ttgtatggac tacaaataaa acttggggca atttcagtt  
 2760  
 tggaaaa  
 2767

&lt;210&gt; 1910

&lt;211&gt; 669

&lt;212&gt; PRT

&lt;213&gt; Homo sapiens

&lt;400&gt; 1910

Met	Lys	Ile	Phe	Val	Gly	Asn	Val	Asp	Gly	Ala	Asp	Thr	Thr	Pro	Glu
1			5						10					15	
Glu	Leu	Ala	Ala	Leu	Phe	Ala	Pro	Tyr	Gly	Thr	Val	Met	Ser	Cys	Ala
		20						25					30		
Val	Met	Lys	Gln	Phe	Ala	Phe	Val	His	Met	Arg	Glu	Asn	Ala	Gly	Ala
		35					40					45			
Leu	Arg	Ala	Ile	Glu	Ala	Leu	His	Gly	His	Glu	Leu	Arg	Pro	Gly	Arg
	50					55					60				
Ala	Leu	Val	Val	Glu	Met	Ser	Arg	Pro	Arg	Pro	Leu	Asn	Thr	Trp	Lys
65				70					75					80	
Ile	Phe	Val	Gly	Asn	Val	Ser	Ala	Ala	Cys	Thr	Ser	Gln	Glu	Leu	Arg
				85					90					95	
Ser	Leu	Phe	Glu	Arg	Arg	Gly	Arg	Val	Ile	Glu	Cys	Asp	Val	Val	Lys
		100					105						110		
Asp	Tyr	Ala	Phe	Val	His	Met	Glu	Lys	Glu	Ala	Asp	Ala	Lys	Ala	Ala
	115						120					125			
Ile	Ala	Gln	Leu	Asn	Gly	Lys	Glu	Val	Lys	Gly	Lys	Arg	Ile	Asn	Val
	130					135					140				
Glu	Leu	Ser	Thr	Lys	Gly	Gln	Lys	Lys	Gly	Pro	Gly	Leu	Ala	Val	Gln
145					150					155				160	
Ser	Gly	Asp	Lys	Thr	Lys	Lys	Pro	Gly	Ala	Gly	Asp	Thr	Ala	Phe	Pro

165 170 175  
 Gly Thr Gly Gly Phe Ser Ala Thr Phe Asp Tyr Gln Gln Ala Phe Gly  
 180 185 190  
 Asn Ser Thr Gly Gly Phe Asp Gly Gln Ala Arg Gln Pro Thr Pro Pro  
 195 200 205  
 Phe Phe Gly Arg Asp Arg Ser Pro Leu Arg Arg Ser Pro Pro Arg Ala  
 210 215 220  
 Ser Tyr Val Ala Pro Leu Thr Ala Gln Pro Ala Thr Tyr Arg Ala Gln  
 225 230 235 240  
 Pro Ser Val Ser Leu Gly Ala Ala Tyr Arg Ala Gln Pro Ser Ala Ser  
 245 250 255  
 Leu Gly Val Gly Tyr Arg Thr Gln Pro Met Thr Ala Gln Ala Ala Ser  
 260 265 270  
 Tyr Arg Ala Gln Pro Ser Val Ser Leu Gly Ala Pro Tyr Arg Gly Gln  
 275 280 285  
 Leu Ala Ser Pro Ser Ser Gln Ser Ala Ala Ala Ser Ser Leu Gly Pro  
 290 295 300  
 Tyr Gly Gly Ala Gln Pro Ser Ala Ser Ala Leu Ser Ser Tyr Gly Gly  
 305 310 315 320  
 Gln Ala Ala Ala Ala Ser Ser Leu Asn Ser Tyr Gly Ala Gln Gly Ser  
 325 330 335  
 Ser Leu Ala Ser Tyr Gly Asn Gln Pro Ser Ser Tyr Gly Ala Gln Ala  
 340 345 350  
 Ala Ser Ser Tyr Gly Val Arg Ala Ala Ala Ser Ser Tyr Asn Thr Gln  
 355 360 365  
 Gly Ala Ala Ser Ser Leu Gly Ser Tyr Gly Ala Gln Ala Ala Ser Tyr  
 370 375 380  
 Gly Ala Gln Ser Ala Ala Ser Ser Leu Ala Tyr Gly Ala Gln Ala Ala  
 385 390 395 400  
 Ser Tyr Asn Ala Gln Pro Ser Ala Ser Tyr Asn Ala Gln Ser Ala Pro  
 405 410 415  
 Tyr Ala Ala Gln Gln Ala Ala Ser Tyr Ser Ser Gln Pro Ala Ala Tyr  
 420 425 430  
 Val Ala Gln Pro Ala Thr Ala Ala Tyr Ala Ser Gln Pro Ala Ala  
 435 440 445  
 Tyr Ala Ala Gln Ala Thr Thr Pro Met Ala Gly Ser Tyr Gly Ala Gln  
 450 455 460  
 Pro Val Val Gln Thr Gln Leu Asn Ser Tyr Gly Ala Gln Ala Ser Met  
 465 470 475 480  
 Gly Leu Ser Gly Ser Tyr Gly Ala Gln Ser Ala Ala Ala Thr Gly  
 485 490 495  
 Ser Tyr Gly Ala Ala Ala Tyr Gly Ala Gln Pro Ser Ala Thr Leu  
 500 505 510  
 Ala Ala Pro Tyr Arg Thr Gln Ser Ser Ala Ser Leu Ala Ala Ser Tyr  
 515 520 525  
 Ala Ala Gln Gln His Pro Gln Ala Ala Ala Ser Tyr Arg Gly Gln Pro  
 530 535 540  
 Gly Asn Ala Tyr Asp Gly Ala Gly Gln Pro Ser Ala Ala Tyr Leu Ser  
 545 550 555 560  
 Met Ser Gln Gly Ala Val Ala Asn Ala Asn Ser Thr Pro Pro Pro Tyr  
 565 570 575  
 Glu Arg Thr Arg Leu Ser Pro Pro Arg Ala Ser Tyr Asp Asp Pro Tyr  
 580 585 590  
 Lys Lys Ala Val Ala Met Ser Lys Arg Tyr Gly Ser Asp Arg Arg Leu

```

      595                600                605
Ala Glu Leu Ser Asp Tyr Arg Arg Leu Ser Glu Ser Gln Leu Ser Phe
  610                615                620
Arg Arg Ser Pro Thr Lys Ser Ser Leu Asp Tyr Arg Arg Leu Pro Asp
  625                630                635                640
Ala His Ser Asp Tyr Ala Arg Tyr Ser Gly Ser Tyr Asn Asp Tyr Leu
      645                650                655
Arg Ala Ala Gln Met His Ser Gly Tyr Gln Arg Arg Met
      660                665

```

&lt;210&gt; 1911

&lt;211&gt; 339

&lt;212&gt; DNA

&lt;213&gt; Homo sapiens

&lt;400&gt; 1911

```

ncgggggtggc cggaatctac tcctagtgtc cagcttccct cctctttctgt ctttccctcg
  60
gggtgcgcgga tgcgttttgcg cccctgtctg cgttccgacg gtcacgatgt ggcgcgtcag
 120
cgcatcgacg atgaaagctt cctccgccca gttgagccga cccaagccgc accgtggggcg
 180
gcagcgcata gccagcagcg gtggtggaat cacctgaagt acctgcgcac cgccgcgcgt
 240
gaagcactgg tgggtcccgct cgtcattgag gtggaggggga aattcgcagg gcaggtaacc
 300
ctgggaaaca ttcagcatgg cagcattcgc gattgctgg
 339

```

&lt;210&gt; 1912

&lt;211&gt; 113

&lt;212&gt; PRT

&lt;213&gt; Homo sapiens

&lt;400&gt; 1912

```

Xaa Gly Trp Pro Glu Ser Thr Pro Ser Val Gln Leu Pro Ser Ser Ser
  1          5          10          15
Val Phe Pro Ser Gly Ala Arg Met Arg Leu Arg Pro Leu Leu Arg Ser
      20          25          30
Asp Gly His Glu Trp Arg Arg Gln Arg Ile Asp Asp Glu Ser Phe Leu
      35          40          45
Arg Pro Val Glu Pro Thr Gln Ala Ala Pro Trp Ala Ala Ala His Ser
      50          55          60
Gln Gln Ala Trp Trp Asn His Leu Lys Tyr Leu Arg Thr Ala Ala Arg
      65          70          75          80
Glu Ala Leu Val Val Pro Leu Val Ile Glu Val Glu Gly Lys Phe Ala
      85          90          95
Gly Gln Val Thr Leu Gly Asn Ile Gln His Gly Ser Ile Arg Asp Cys
      100          105          110
Trp

```

&lt;210&gt; 1913

&lt;211&gt; 767

&lt;212&gt; DNA

&lt;213&gt; Homo sapiens

&lt;400&gt; 1913

gtgcacaccg gttcacagcg atatttcagg caaattgaaa gcgtcagttc gataggctga  
 60  
 atgcgaaatg ggggatttgt caccctcagg gaccggaagg aaggagcag tccgatggca  
 120  
 gcgccagtac tcgatctcgt cctcccagcc ttgtccgaaa cctccgccaa tctcatcggc  
 180  
 cagaggttgc gccagggatg tcacacctcc atccccacat cgaatctacg gtgagcttcg  
 240  
 tcccagctgt cgggcagtac aaggcacctc ggatcaagct ttcctggcgt gaactggctcc  
 300  
 tggtagccat caatgccacc cactcgact ccaatcccc acaagtgtgc caacacgccg  
 360  
 cagaattgcy tcgcagccac ccggaccttg ccatcaaggt ggcccccccc accggaccag  
 420  
 caccggctct cctcaacctc gtcgatacgc gattgcgtct ggacgctcat cgcgtccatg  
 480  
 cccaggagct ggactcactc gtattgtctt cccctgatgg cggcgattta cgtggctcgg  
 540  
 caatgctgtc caggctgacc cggctgtggt cccagcacca ccaccttccg gtcgcatcg  
 600  
 ccaccaatcg tgggtgggct actgcggtcg aggaggtcgt cgcccccgct cgacaggagg  
 660  
 ggcgcgctca tatcgagtg ggaagcctgt ggatttcgca cgacagagaat ttccgcattc  
 720  
 ataccgcca ggctttgcat gccgggtgcc aggttgtcgc cgcaccg  
 767

&lt;210&gt; 1914

&lt;211&gt; 190

&lt;212&gt; PRT

&lt;213&gt; Homo sapiens

&lt;400&gt; 1914

Met	Ser	His	Leu	His	Pro	His	Ile	Glu	Ser	Thr	Val	Ser	Phe	Val	Pro
1				5					10					15	
Ala	Val	Gly	Gln	Tyr	Lys	Ala	Pro	Arg	Ile	Lys	Leu	Ser	Trp	Arg	Glu
			20					25					30		
Leu	Val	Leu	Val	Pro	Ile	Asn	Ala	Thr	His	Leu	His	Ser	Asn	Pro	Pro
			35				40					45			
Gln	Val	Val	Gln	His	Ala	Ala	Glu	Leu	Arg	Arg	Ser	His	Pro	Asp	Leu
			50			55				60					
Ala	Ile	Lys	Val	Ala	Arg	Pro	Thr	Gly	Pro	Ala	Pro	Val	Leu	Leu	Asn
					70				75					80	
Leu	Val	Asp	Thr	Arg	Leu	Arg	Leu	Ala	Ala	His	Arg	Val	His	Ala	Gln
			85						90					95	
Glu	Leu	Asp	Ser	Leu	Val	Leu	Ser	Ser	Pro	Asp	Gly	Gly	Asp	Leu	Arg
			100					105					110		
Gly	Ser	Ala	Met	Leu	Ser	Arg	Leu	Thr	Arg	Leu	Trp	Ser	Gln	His	His
			115				120					125			
His	Leu	Pro	Val	Arg	Ile	Ala	Thr	Asn	Arg	Gly	Gly	Ala	Thr	Ala	Val

```

      130              135              140
Glu Glu Val Val Ala Arg Leu Arg Gln Glu Gly Arg Arg His Ile Ala
145              150              155              160
Val Gly Ser Leu Trp Ile Cys Asp Asp Glu Asn Phe Arg Ile His Thr
      165              170              175
Arg Gln Ala Leu His Ala Gly Ala Glu Val Val Ala Ala Pro
      180              185              190

```

<210> 1915  
 <211> 571  
 <212> DNA  
 <213> Homo sapiens

```

<400> 1915
acgcgtccca ggccccacag gccccctctg gctctcaggc ccccgcccca gtggccagga
60
agggtgtgagc gcacgatggg cagtcacgcc gcacacacgc tctgtctatg tccctcccca
120
ggaccctctg accgggcaca agggcagctg tgaggacaag gccacagcca caaaccaacc
180
tggcacacac ggctcagggc gaggcactgc cccatggggc tgcctgatcc acgctcacag
240
gtgtcattgt ctatgctcag gggggcttgg caccatggga aaccacccca gaacacatgg
300
agaagccaca gcacaacctc agcgcccgcc atgcaggacc ctgggtctca cccattgcac
360
ccaccgtgcg ggaccctgc gcctcaccgc gaacatccac agtggtggac tgctgcgtct
420
caccactgc acctgccgtg caggatccct gagtctcacc cgccgcaccc gccgtgccgg
480
atccctgagt ctacccgcc gcaccgcgc tacctgccc atccgccatg cgggacccct
540
gcgtctcacc caccgcaccc gccgtgccc a
571

```

<210> 1916  
 <211> 119  
 <212> PRT  
 <213> Homo sapiens

```

<400> 1916
Met Gly Leu His Asp Pro Arg Ser Gln Val Ser Leu Ser Met Leu Arg
1      5      10      15
Gly Ala Trp His His Gly Lys Pro Thr Gln Asn Thr Trp Arg Ser His
      20      25      30
Ser Thr Thr Ser Ala Pro Ala Met Gln Asp Pro Gly Ser His Pro Leu
      35      40      45
His Pro Pro Cys Gly Thr Pro Ala Pro His Pro Glu His Pro Gln Cys
      50      55      60
Gly Thr Ala Ala Ser His Pro Leu His Leu Pro Cys Arg Ile Pro Glu
65      70      75      80
Ser His Pro Pro His Pro Pro Cys Gly Ile Pro Glu Ser His Pro Pro
      85      90      95
His Pro Pro Tyr Leu Pro His Pro Pro Cys Gly Thr Pro Ala Ser His

```

100 105 110  
 Pro Pro His Pro Pro Cys Gly  
 115  
 <210> 1917  
 <211> 360  
 <212> DNA  
 <213> Homo sapiens  
 <400> 1917  
 nnacgcgtga cggcggaaga tctccgcacc ctatctgccg ggtacacgcc ggggtgattcc  
 60  
 gatattgtctt gggctgccat caccttgtag cgcggtgtcg ttgctctcgc cttggaccgt  
 120  
 catccctatg gcccggtgaa gtcggtaaa gtagcaggtc cggccggcca cccagccccc  
 180  
 gatttcgcgc cgggatgggt gctcgaccgc ttggcagttc ccgtacatcg cacagtggcc  
 240  
 gactcccaaa ggagacactt cccggtgact catttgtagt tcaatcgga gacaacccac  
 300  
 gtgacgtcgc atgtcattga cgagcgacgc gttcgtgtat gtgttcgggg ttcgcccggaa  
 360  
 <210> 1918  
 <211> 120  
 <212> PRT  
 <213> Homo sapiens  
 <400> 1918  
 Xaa Arg Val Thr Gly Glu Asp Leu Arg Thr Leu Ser Ala Gly Tyr Thr  
 1 5 10 15  
 Pro Gly Asp Ser Asp Met Ser Trp Ala Ala Ile Thr Leu Trp Arg Gly  
 20 25 30  
 Val Val Ala Ser Ala Leu Asp Arg His Pro Tyr Gly Pro Val Lys Ser  
 35 40 45  
 Val Lys Val Ala Gly Pro Ala Gly His Pro Ala Pro Asp Phe Ala Ala  
 50 55 60  
 Gly Trp Leu Leu Asp Arg Leu Ala Val Pro Val His Arg Thr Val Ala  
 65 70 75 80  
 Asp Ser Pro Arg Arg His Phe Pro Val Thr His Leu Gln Phe Asn Arg  
 85 90 95  
 Glu Thr Thr His Val Asp Val Asp Val Ile Asp Glu Arg Thr Val Arg  
 100 105 110  
 Val Cys Val Pro Gly Ser Pro Glu  
 115 120  
 <210> 1919  
 <211> 354  
 <212> DNA  
 <213> Homo sapiens  
 <400> 1919  
 nncggccgca gctgtgtcca ctgcgctgtc cctgccacct cggccatctg cctctctctt  
 60

ccaggctgca gccatccctc ctgcaactgct gaggcctggc cagcgcatc ncggccacgc  
 120  
 ccacctccat cctctttgcc cttactaaa cactgggagc cgcggccccc gcgacaggcc  
 180  
 aggccagcgg gaaggtgtag acgaacagcc caaaggattc agcagtgtaa gtacccccac  
 240  
 tacgcactta caaagtgcag gccaccgccc agccccacct ccagacacag gcggaggcca  
 300  
 agctcgggg caccgtatca tcccgtagc tctccacct acccctgcca attg  
 354

<210> 1920

<211> 118

<212> PRT

<213> Homo sapiens

<400> 1920

Xaa	Gly	Arg	Ser	Cys	Val	His	Cys	Ala	Val	Pro	Ala	Thr	Ser	Ala	Ile
1				5					10					15	
Cys	Leu	Ser	Leu	Pro	Gly	Cys	Ser	His	Pro	Ser	Cys	Thr	Ala	Glu	Ala
			20					25					30		
Trp	Pro	Arg	Ala	Ser	Arg	Pro	Arg	Pro	Pro	Ser	Ser	Leu	Pro	Leu	
		35				40					45				
Thr	Lys	His	Trp	Glu	Pro	Ala	Arg	Pro	Arg	Gln	Ala	Arg	Pro	Ala	Gly
		50				55				60					
Arg	Cys	Arg	Arg	Thr	Ala	Gln	Arg	Ile	Gln	Gln	Cys	Lys	Tyr	Pro	Thr
65				70				75						80	
Tyr	Ala	Leu	Thr	Lys	Cys	Arg	Pro	Pro	Pro	Ser	Pro	Thr	Ser	Arg	His
				85				90						95	
Arg	Arg	Arg	Pro	Ser	Ser	Arg	Ala	Pro	Tyr	His	Pro	Val	Pro	Ser	Pro
			100					105					110		
Pro	Tyr	Pro	Cys	Gln	Leu										
			115												

<210> 1921

<211> 357

<212> DNA

<213> Homo sapiens

<400> 1921

gaattcatct ggaggcagag agatggggaa ggggtggga gaagagcaag aacggaaact  
 60  
 atttttaata caaatccagt catggtattg tatacacagc agcctctgtc ttccagaaac  
 120  
 ctacacggcc gccacaccaa agttaatgcc accaggcgct atcacacaga tgtgagggtgc  
 180  
 aggtgccact ccacagccgt gggcagacct gggagccccag ctctctctgg ttccacctc  
 240  
 cacactgccc accccatcct tctctcccag tctccactcc atcgaagcct cccagatgac  
 300  
 ttcatgtggg gacaggagaa ctacagatca tggctgagaa gggcgcnctg tngtcca  
 357

<210> 1922

<211> 92  
 <212> PRT  
 <213> Homo sapiens

<400> 1922  
 Met Val Leu Tyr Thr Gln Gln Pro Leu Ser Ser Arg Asn Leu His Gly  
 1 5 10 15  
 Arg His Thr Lys Val Asn Ala Thr Arg Arg His His Thr Asp Val Arg  
 20 25 30  
 Cys Arg Cys His Ser Thr Ala Val Gly Arg Pro Gly Ser Pro Ala Pro  
 35 40 45  
 Pro Gly Phe Thr Leu His Thr Ala His Pro Ile Leu Leu Ser Gln Ser  
 50 55 60  
 Pro Leu His Arg Ser Leu Pro Asp Asp Phe Met Trp Gly Gln Glu Asn  
 65 70 75 80  
 Tyr Arg Ser Trp Leu Arg Arg Ala Xaa Cys Xaa Pro  
 85 90

<210> 1923  
 <211> 368  
 <212> DNA  
 <213> Homo sapiens

<400> 1923  
 nattnaatta tgggtgagaaa aggccttatgc gttgcattgc tcgtgcttgc cacactgtca  
 60  
 ggtagtgcac agaagaaaga atgggttcagc aacattaaac tctcaggcta tggaaatgacc  
 120  
 cagtatcaat atactgatca agaggggaagc aaaggccatt catttaactc gcgattgttc  
 180  
 ccgttgccctt taaacggacg tatcttaaat gacttttatt ggaaggcaca ggcccaattc  
 240  
 aatggaaaca catcgacatt gggaagcagt ccacgtcttg tagacctatt tgtagagtgg  
 300  
 cagaaatatg attatttcaa ggtgaagtta ggccagttta agcgaccatt cacgtttgaa  
 360  
 aatcccg  
 368

<210> 1924  
 <211> 119  
 <212> PRT  
 <213> Homo sapiens

<400> 1924  
 Met Val Arg Lys Gly Leu Cys Val Ala Leu Leu Val Leu Val Thr Leu  
 1 5 10 15  
 Ser Gly Ser Ala Gln Lys Lys Glu Trp Phe Ser Asn Ile Lys Leu Ser  
 20 25 30  
 Gly Tyr Gly Met Thr Gln Tyr Gln Tyr Thr Asp Gln Glu Gly Ser Lys  
 35 40 45  
 Gly His Ser Phe Asn Leu Arg Leu Phe Pro Leu Pro Leu Asn Gly Arg  
 50 55 60  
 Ile Leu Asn Asp Phe Tyr Trp Lys Ala Gln Ala Gln Phe Asn Gly Asn

```

65              70              75              80
Thr Ser Thr Leu Gly Ser Ser Pro Arg Leu Val Asp Leu Phe Val Glu
              85              90              95
Trp Gln Lys Tyr Asp Tyr Phe Lys Val Lys Leu Gly Gln Phe Lys Arg
              100              105              110
Pro Phe Thr Phe Glu Asn Pro
              115

```

&lt;210&gt; 1925

&lt;211&gt; 427

&lt;212&gt; DNA

&lt;213&gt; Homo sapiens

&lt;400&gt; 1925

```

actagtgttt ccagcaggca gcgatttaat tgttcttgca ttgaaaccca gtgtggcaag
60
cccccctgtg atttgaggct aatccctccc caccctgttc tggcacatgt gcggtgcccc
120
gggctcccc caggctgtga gcagataaag ccctgcgtgg cttcacaaca gtgactgggt
180
ctgagaacaa ggtccttgta caagcgacag ggagtgtcga caccagatgt ggcagccccc
240
ccacgccagg ctgtgtgggt cagccgcctg gtatatgtgt ccacgtctga tgaaacacagc
300
gttgtgtggt gcatgactgt tgtctgtttt cttcatggaa acaaggaaac ctaagcatta
360
aaacaacacc atcccagctct ggttccttag agcaaatgga agcaccaggc tctgggtgcac
420
ggcgcgcg
427

```

&lt;210&gt; 1926

&lt;211&gt; 104

&lt;212&gt; PRT

&lt;213&gt; Homo sapiens

&lt;400&gt; 1926

```

Met His His Thr Thr Leu Phe Ser Ser Ala Met Asp Thr Tyr Thr Arg
1              5              10              15
Arg Leu His His Thr Ala Trp Arg Gly Gly Ala Ala Thr Ser Gly Val
              20              25              30
Ser Thr Pro Cys Arg Leu Tyr Lys Asp Leu Phe Leu Arg Thr Ser His
              35              40              45
Cys Cys Glu Ala Thr Gln Gly Phe Ile Cys Ser Gln Pro Gly Gly Ser
              50              55              60
Pro Gly His Arg Thr Cys Ala Arg Thr Gly Trp Gly Gly Ile Ser Leu
65              70              75              80
Lys Ser Gln Gly Gly Leu Pro His Trp Val Ser Met Gln Glu Gln Leu
              85              90              95
Asn Arg Cys Leu Leu Glu Thr Leu
              100

```

&lt;210&gt; 1927

&lt;211&gt; 516



&lt;212&gt; DNA

&lt;213&gt; Homo sapiens

&lt;400&gt; 1929

```

nnccgcgag actcagggtc tgggggtccct cttccccaag aggcctgact gcctgggtgt
60
ttctccagga catgtccttc aaggagaaat acacttctctg gctctgggctt gggccagggtg
120
ccttctgggc cttgtctgga gtgccacag cagaggctgg cttcctggta ctatctgtgc
180
cagaggagacc agggccccgt gcagccctgc ctctgggctg ggtctgaacc tgctccacgc
240
ccacggggccc ctgagtccca caggagtcag gctcgtctga gctggggatg cagttttctg
300
aagaacggcg gctttgggct gccttctcta actctggctt ccgcaccttg cttggattcc
360
tcattctttt ttttcttctt ggccecaact tctcttttga gggctctctg agggcccagc
420
tccatggcgt cacagatgta tgtcagcaag ccattgctctc cgtcctctcc attctcgggt
480
gcagcctccc cgttgggtgt cacttctcca gaagcaaaact gttgatcagg cccaaaacctg
540
agtgctgagc agtctcagtc tctcctctct gccaaagcgc cagggtccca ccctcaggct
600
ccctggtagg gaccgagggg cccggcgctt gagccccgct caatcgccgc ttctcgtgga
660
agcggctcgg gctgagcttg cgcagagtgt cgacctcccc aggcaccgcc ttctcgtgct
720
tccagctctg ctgagctctg cgcagctttg ccgcagcctt gcgcttcaac ttggcgaacc
780
agcgcgtggt gatcttgtag tcagtcatgg tgcccacctc ccaggaccct gagcaggaca
840
caa
843

```

&lt;210&gt; 1930

&lt;211&gt; 120

&lt;212&gt; PRT

&lt;213&gt; Homo sapiens

&lt;400&gt; 1930

```

Leu Pro Gly Cys Ser Pro Gly Thr Cys Pro Ser Arg Arg Asn Thr Leu
1      5      10      15
Pro Gly Leu Gly Leu Gly Gln Gly Pro Ser Gly Pro Cys Leu Glu Cys
20     25     30
Pro Gln Gln Arg Leu Ala Ser Trp Tyr Tyr Leu Cys Gln Arg Thr Gln
35     40     45
Ala Pro Val Gln Pro Cys Leu Trp Ala Gly Ser Glu Pro Ala Pro Arg
50     55     60
Pro Arg Ala Pro Glu Ser His Arg Ser Gln Ala Arg Leu Ser Trp Gly
65     70     75     80
Cys Ser Phe Leu Lys Asn Gly Gly Phe Gly Leu Pro Ser Leu Thr Leu
85     90     95
Ala Ser Ala Pro Cys Leu Asp Ser Ser Ser Phe Phe Phe Phe Leu Ala

```

100 105 110  
 Pro Leu Ser Ser Leu Arg Ala Leu  
 115 120

<210> 1931  
 <211> 719  
 <212> DNA  
 <213> Homo sapiens

<400> 1931  
 acgcgtaggc ctgagccgct ccacagccct ggggagggca gaaaaggagg aaagtaggca  
 60  
 gtgcaagaaa caggaggaaa cccccagag cgcagcctcc tggaagcggga agggagcact  
 120  
 gaagaggagg tggtagtggt tgcagaagc tgctgagaag ccagttagat aaagcggaga  
 180  
 agcttcctac taggacagct tcctcccagc ccagtggtggc cacgtggtgt tcctcgggtga  
 240  
 ccagacacgt ggccatgaat ttctcagtggt gctttattgt tgattaaatg cagtgcggctc  
 300  
 acgaggctga ctttggaaac aggaggtccg tgggtcgtgg aataagaaag ggcatcatgg  
 360  
 ttgcagagga agggaaggaa ccccacgggt gccttgggga gctttctgaa aggcaggctc  
 420  
 gatcatgcct ctctgggcta cggtctcctc acggtgggtc ctggttggaa ctgaagtgggt  
 480  
 ccccttggtc cctctctccc atctcagcat tagccaggac ttttggcttg gcggccccag  
 540  
 caggggctgcc cccttgcaac acttcttttc ccacatgac gtgccttcca aacctacttc  
 600  
 cagcgctgcc ctcttcaggg agcctttcat aaccacctct cccttccact ggctaaagat  
 660  
 gaggttgagc aactgcagga cttgggacct tgttcctgcc cctgtggctg cctggatcc  
 719

<210> 1932  
 <211> 98  
 <212> PRT  
 <213> Homo sapiens

<400> 1932  
 Met Pro Leu Trp Ala Thr Val Ser Ser Arg Trp Leu Leu Val Gly Thr  
 1 5 10 15  
 Glu Val Val Pro Leu Val Pro Leu Ser His Leu Ser Ile Ser Gln Asp  
 20 25 30  
 Phe Trp Leu Gly Gly Pro Ser Arg Ala Ala Pro Leu Gln His Phe Phe  
 35 40 45  
 Ser His Met Ile Val Pro Ser Lys Pro Thr Ser Ser Val Ala Leu Phe  
 50 55 60  
 Arg Glu Pro Phe Ile Thr Thr Ser Pro Phe His Trp Leu Lys Met Arg  
 65 70 75 80  
 Leu Ser Asn Cys Arg Thr Trp Asp Leu Val Pro Ala Pro Val Ala Ala  
 85 90 95  
 Trp Ile

<210> 1933  
 <211> 295  
 <212> DNA  
 <213> Homo sapiens .

<400> 1933  
 ggccgagc tggggggc catggagc atgcctgcc acctgattat cctcgacctg  
 60  
 atgctgccgg gggataacgg cctcttgctg tgccagcgcc tgcgccagca atacgcaaca  
 120  
 ccagtgatca tgctgaccgc catgggagaa ctgagtgate gcgtgggggg cctggaaatg  
 180  
 ggccgcatg actacctgaa caaaccttgc gatgcccggtg aattacttgc cggggtgcgc  
 240  
 gctgtactgc gtccggcggtg tgaaaacgga cgcaggttgg gcgacgtgtc gcgcc  
 295

<210> 1934  
 <211> 98  
 <212> PRT  
 <213> Homo sapiens

<400> 1934  
 Gly Ala Glu Leu Trp Ala Ala Met Glu Arg Met Pro Ala Asp Leu Ile  
 1 5 10 15  
 Ile Leu Asp Leu Met Leu Pro Gly Asp Asn Gly Leu Leu Leu Cys Gln  
 20 25 30  
 Arg Leu Arg Gln Gln Tyr Ala Thr Pro Val Ile Met Leu Thr Ala Met  
 35 40 45  
 Gly Glu Leu Ser Asp Arg Val Gly Gly Leu Glu Met Gly Ala Asp Asp  
 50 55 60  
 Tyr Leu Asn Lys Pro Phe Asp Ala Arg Glu Leu Ala Arg Val Arg  
 65 70 75 80  
 Ala Val Leu Arg Pro Ala Cys Glu Asn Arg Pro Thr Leu Gly Asp Val  
 85 90 95  
 Ser Arg

<210> 1935  
 <211> 298  
 <212> DNA  
 <213> Homo sapiens

<400> 1935  
 accggtgtgg cgggcgcggc cttcaccacc atcggtcca cggggccgac ggcgggttcg  
 60  
 caatacatcg tcgatacett cctggtagtg gtgttcgggg gggcccaag cctgttcggc  
 120  
 cccatcgct cggcgttcgt gattgcccag acccaatcgc tgcaggagt tttcctcagt  
 180  
 ggctcgatgg ccaaggtgct gacctgtcgc tcggtgatc tgatcctgat gctgcgccc  
 240

caagggttgt tctccatcaa agtgcgcaag taaaggcgag cagataaggg ttttaagca  
298

<210> 1936

<211> 90

<212> PRT

<213> Homo sapiens

<400> 1936

```

Thr Gly Val  Ala Gly  Ala Ala  Phe Thr  Thr  Ile  Gly  Ser  Thr  Gly  Pro
 1              5              10              15
Thr Ala Gly  Ser  Gln  Tyr  Ile  Val  Asp  Thr  Phe  Leu  Val  Val  Val  Phe
              20              25              30
Gly Gly Ala  Gln  Ser  Leu  Phe  Gly  Pro  Ile  Ala  Ser  Ala  Phe  Val  Ile
              35              40              45
Ala  Gln  Thr  Gln  Ser  Leu  Ser  Glu  Phe  Phe  Leu  Ser  Gly  Ser  Met  Ala
              50              55              60
Lys  Val  Leu  Thr  Leu  Ser  Ser  Val  Ile  Leu  Ile  Leu  Met  Leu  Arg  Pro
65              70              75              80
Gln  Gly  Leu  Phe  Ser  Ile  Lys  Val  Arg  Lys
              85              90

```

<210> 1937

<211> 513

<212> DNA

<213> Homo sapiens

<400> 1937

```

gcacggcgca cagtaacacc aactcgaaag agaccttatg aatgcaaggt gtgcgggaaa
60
gcctttaatt ctccaattt atttcaaatt catcaaagaa ctcactctgg aaagaggtcc
120
tataaatgta gggaaatagt gagagccttc acagttttcca gtttctttcg aaaacatgga
180
aaaatgcata ctggagaaaa acgctatgaa tgtaataact ttggaaaacc tatcgattat
240
cccagtttat ttcaaattca tgtagaact cactctggag aaaaacccta caaatgtaaa
300
caatgtggta aagccttcat ttccgcaggt tacgttcgga cacatgaaat cagatctcac
360
gcgctggaga aatccacca atgtcaggaa tgtgggaaga aactcagttg ttccagttcc
420
cttcacagac atgaagaac tcatagtgga ggaaaactct acgaatgtca aaaatgtgac
480
caagtcttta gatgtccac gtccttcac gcg
513

```

<210> 1938

<211> 171

<212> PRT

<213> Homo sapiens

<400> 1938

```

Ala Arg Arg Thr Val Thr Pro Thr Arg Lys Arg Pro Tyr Glu Cys Lys

```

1	5	10	15
Val Cys Gly Lys Ala Phe Asn Ser Pro Asn Leu Phe Gln Ile His Gln	20	25	30
Arg Thr His Thr Gly Lys Arg Ser Tyr Lys Cys Arg Glu Ile Val Arg	35	40	45
Ala Phe Thr Val Ser Ser Phe Phe Arg Lys His Gly Lys Met His Thr	50	55	60
Gly Glu Lys Arg Tyr Glu Cys Lys Tyr Cys Gly Lys Pro Ile Asp Tyr	65	70	75
Pro Ser Leu Phe Gln Ile His Val Arg Thr His Ser Gly Glu Lys Pro	85	90	95
Tyr Lys Cys Lys Gln Cys Gly Lys Ala Phe Ile Ser Ala Gly Tyr Val	100	105	110
Arg Thr His Glu Ile Arg Ser His Ala Leu Glu Lys Ser His Gln Cys	115	120	125
Gln Glu Cys Gly Lys Lys Leu Ser Cys Ser Ser Ser Leu His Arg His	130	135	140
Glu Arg Thr His Ser Gly Gly Lys Leu Tyr Glu Cys Gln Lys Cys Asp	145	150	155
Gln Val Phe Arg Cys Pro Thr Ser Leu His Ala	165	170	

&lt;210&gt; 1939

&lt;211&gt; 1233

&lt;212&gt; DNA

&lt;213&gt; Homo sapiens

&lt;400&gt; 1939

gccggcagcg ccgctcccca gggaggagggt ccgcagcctg aggtcttctc caagaaaaaa  
 60  
 aaagaaaaaa aaacaacatg gctgcaaagg agaaactgga ggcagtgtaa aatgtggccc  
 120  
 tgagggtgcc aagcatcatg ctgttgatg tcctgtacag atgggatgtc agctcctttt  
 180  
 tccagcagat ccaaagaagt agccttagta ataaccctct tttccagtat aagtatttgg  
 240  
 ctcttaatat gcattatgta ggttatatct taagtgtggt gctgctaaca ttgccaggcc  
 300  
 agcatctggt tcagctttat ctatatcttt tgactgctct getcctctat gctggacatc  
 360  
 aaatttccag ggactatggt cggagtgaac tggggtttgc ctatgagggga ccaatgtatt  
 420  
 tagaacctct ctctatgaat cggtttacca cagccttaat aggtcagttg gtggtgtgta  
 480  
 ctttatgctc ctgtgtcatg aaaacaaagc agatttggct gttttcagct cacatgcttc  
 540  
 ctctgtacag acgactctgc ctgttctcct tggagacaat tgctatcatc aataaatttg  
 600  
 ctatgatttt tactggattg gaagtctctc atttctcttg gtctaactct ttggtaacct  
 660  
 ataaccttgc taaatctgca tacagagaat tggttcaggt agtgagggta tatggccttc  
 720  
 tcgccttggg aatgtccctg tggaaatcaac tggtagtccc tgttctcttc atggttttct  
 780

ggctcgtctt atttgccttt cagatttact cctatttcag tactcgagat cagcctgcat  
 840  
 cactgagag gcttcttttc cttttcttga caaggtaatt aataagagcc tatgatacta  
 900  
 tatataacct tagaaagaga aaactttgat ctaggaatag taagttttgc agattacttt  
 960  
 tatcgttcat gttacacaac ttcgtatttt gttaagatag gattttcatt cactggatac  
 1020  
 ctagggttgg caatgcagag aggtgctaac ataataatgt ggtttatttg gctgcactat  
 1080  
 ggaccagagt gtagcaaatg atttgtggaa aggtacatag cacatcgtaa aagtattttt  
 1140  
 tcaatttcaa gttaaaatta ttgggtcaat cagaaaaaag tatattataa aaataacatt  
 1200  
 tattgagtat tttaaatgta ccataccatt naa  
 1233

&lt;210&gt; 1940

&lt;211&gt; 266

&lt;212&gt; PRT

&lt;213&gt; Homo sapiens

&lt;400&gt; 1940

Met	Ala	Ala	Lys	Glu	Lys	Leu	Glu	Ala	Val	Leu	Asn	Val	Ala	Leu	Arg
1			5						10					15	
Val	Pro	Ser	Ile	Met	Leu	Leu	Asp	Val	Leu	Tyr	Arg	Trp	Asp	Val	Ser
			20				25						30		
Ser	Phe	Phe	Gln	Gln	Ile	Gln	Arg	Ser	Ser	Leu	Ser	Asn	Asn	Pro	Leu
		35					40					45			
Phe	Gln	Tyr	Lys	Tyr	Leu	Ala	Leu	Asn	Met	His	Tyr	Val	Gly	Tyr	Ile
		50				55					60				
Leu	Ser	Val	Val	Leu	Leu	Thr	Leu	Pro	Arg	Gln	His	Leu	Val	Gln	Leu
						70				75				80	
Tyr	Leu	Tyr	Phe	Leu	Thr	Ala	Leu	Leu	Tyr	Ala	Gly	His	Gln	Ile	
			85						90				95		
Ser	Arg	Asp	Tyr	Val	Arg	Ser	Glu	Leu	Gly	Phe	Ala	Tyr	Glu	Gly	Pro
			100					105					110		
Met	Tyr	Leu	Glu	Pro	Leu	Ser	Met	Asn	Arg	Phe	Thr	Thr	Ala	Leu	Ile
			115				120						125		
Gly	Gln	Leu	Val	Val	Cys	Thr	Leu	Cys	Ser	Cys	Val	Met	Lys	Thr	Lys
						135					140				
Gln	Ile	Trp	Leu	Phe	Ser	Ala	His	Met	Leu	Pro	Leu	Leu	Ala	Arg	Leu
					150				155					160	
Cys	Leu	Val	Pro	Leu	Glu	Thr	Ile	Ala	Ile	Asn	Lys	Phe	Ala	Met	
			165					170					175		
Ile	Phe	Thr	Gly	Leu	Glu	Val	Leu	Tyr	Phe	Leu	Gly	Ser	Asn	Leu	Leu
			180					185					190		
Val	Pro	Tyr	Asn	Leu	Ala	Lys	Ser	Ala	Tyr	Arg	Glu	Leu	Val	Gln	Val
			195				200					205			
Val	Glu	Val	Tyr	Gly	Leu	Leu	Ala	Leu	Gly	Met	Ser	Leu	Trp	Asn	Gln
			210				215				220				
Leu	Val	Val	Pro	Val	Leu	Phe	Met	Val	Phe	Trp	Leu	Val	Leu	Phe	Ala
						230				235				240	
Leu	Gln	Ile	Tyr	Ser	Tyr	Phe	Ser	Thr	Arg	Asp	Gln	Pro	Ala	Ser	Arg

245 250 255  
 Glu Arg Leu Leu Phe Leu Phe Leu Thr Arg  
 260 265

<210> 1941  
 <211> 411  
 <212> DNA  
 <213> Homo sapiens

<400> 1941  
 ctggggccct gccccacagc atcatgatgg ggaaactccc cctgggggtc gtctcccctt  
 60  
 atgtgaagat gagttcgggg ggctacacgg accccctgaa attctacgcc accagctact  
 120  
 gcacagccta cggtcgggag gatttcaagc cccgtgtggg cagtcacgta ggcaccggct  
 180  
 acaaatcaaa tttccagccc gtggtctcat gccaaagccag tctggaggcc tttagacaacc  
 240  
 cggccagggg ggaacaagcc caggaccatt tccagtctgt ggccagccag agctaccggc  
 300  
 ccctggagggt gctgacggc aagcatcccc tgccctggag catgcgccag accagctcag  
 360  
 gctatgggag ggagaagccc agtgccgggtc cccccaccaa ggagggtccgg a  
 411

<210> 1942  
 <211> 129  
 <212> PRT  
 <213> Homo sapiens

<400> 1942  
 Met Met Gly Lys Leu Pro Leu Gly Val Val Ser Pro Tyr Val Lys Met  
 1 5 10 15  
 Ser Ser Gly Gly Tyr Thr Asp Pro Leu Lys Phe Tyr Ala Thr Ser Tyr  
 20 25 30  
 Cys Thr Ala Tyr Gly Arg Glu Asp Phe Lys Pro Arg Val Gly Ser His  
 35 40 45  
 Val Gly Thr Gly Tyr Lys Ser Asn Phe Gln Pro Val Val Ser Cys Gln  
 50 55 60  
 Ala Ser Leu Glu Ala Leu Asp Asn Pro Ala Arg Gly Glu Gln Ala Gln  
 65 70 75 80  
 Asp His Phe Gln Ser Val Ala Ser Gln Ser Tyr Arg Pro Leu Glu Val  
 85 90 95  
 Pro Asp Gly Lys His Pro Leu Pro Trp Ser Met Arg Gln Thr Ser Ser  
 100 105 110  
 Gly Tyr Gly Arg Glu Lys Pro Ser Ala Gly Pro Pro Thr Lys Glu Val  
 115 120 125  
 Arg

<210> 1943  
 <211> 386  
 <212> DNA  
 <213> Homo sapiens

&lt;400&gt; 1943

nagaaacatt caggggtcca acaggggtgga aaacatgagg ctgcaggatg ttttaacagga  
 60  
 gtctttgtcg cagctcctct tggagccttt aacgagatac tatcatgcct atgaactgcc  
 120  
 acacagatgt acatggcata gcactgccca aaagtatcag cccaaggaac cctactttcc  
 180  
 ccagcaacat ctaactcaga aatgctgac tttggcctca atctgggtccc aaaatacctc  
 240  
 cagggtatatt tgggcttcgg tgtgttcaca cacttgggtca tgtaaatctg aacacagact  
 300  
 ctctctgcct tggcaagaac cccccacacc cccatagata attacaccct ttggttctcc  
 360  
 ctctgcaatc tcacctgcta gagacg  
 386

&lt;210&gt; 1944

&lt;211&gt; 111

&lt;212&gt; PRT

&lt;213&gt; Homo sapiens

&lt;400&gt; 1944

Met	Gly	Val	Trp	Gly	Val	Leu	Ala	Lys	Ala	Glu	Arg	Val	Cys	Val	Gln
1				5					10				15		
Ile	Tyr	Met	Thr	Lys	Cys	Val	Asn	Thr	Pro	Lys	Pro	Lys	Ile	Pro	Trp
			20					25					30		
Arg	Tyr	Phe	Gly	Thr	Arg	Leu	Arg	Pro	Lys	Ile	Ser	Ile	Ser	Glu	Leu
		35				40					45				
Asp	Val	Ala	Gly	Glu	Ser	Arg	Val	Pro	Trp	Ala	Asp	Thr	Phe	Gly	Gln
	50				55					60					
Cys	Tyr	Ala	Met	Tyr	Ile	Cys	Val	Ala	Val	His	Arg	His	Asp	Ser	Ile
65				70					75					80	
Ser	Leu	Lys	Ala	Pro	Arg	Gly	Ala	Ala	Lys	Thr	Pro	Val	Lys	His	
			85					90					95		
Pro	Ala	Ala	Ser	Cys	Phe	Pro	Pro	Cys	Trp	Ser	Pro	Glu	Cys	Phe	
		100						105					110		

&lt;210&gt; 1945

&lt;211&gt; 443

&lt;212&gt; DNA

&lt;213&gt; Homo sapiens

&lt;400&gt; 1945

nacgcgtcac gaagcgcgct cggcccacgt ggctccaagg gcgtccacgc gccctcctc  
 60  
 gaccgattgg tgtcgaacat ggcacgggtgg catgcgacgc gcaccaagat ccagctcaag  
 120  
 ctccgcgatcc agcgantcgg catgctacag gagaaaaaag ccgcactgca taaaaaagtg  
 180  
 cgactggaaa ttgcggacnn tcgtagacgc caaaagcttg aatctgcgcy cgctcaaaacc  
 240  
 gaatcgctga tcatggacga tatacatttg gagttgcttg aactgcttga gctctactgt  
 300

gagacactct atgccagatt cggattacta gaaggacgcg acaatgagcc tgatgatgcg  
 360  
 atccgcgagc cgatgatcgc cattattcat gcggctcatc gcacagaggt gaaggaacta  
 420  
 catgtgctcc aaaacatgct gaa  
 443

<210> 1946

<211> 147

<212> PRT

<213> Homo sapiens

<400> 1946

Xaa	Ala	Ser	Arg	Ser	Ala	Leu	Gly	Pro	Arg	Gly	Ser	Lys	Gly	Val	His
1				5					10					15	
Ala	Pro	Leu	Leu	Asp	Arg	Leu	Val	Ser	Asn	Met	Ala	Arg	Trp	His	Ala
		20						25					30		
Thr	Arg	Thr	Lys	Ile	Gln	Leu	Lys	Leu	Ala	Ile	Gln	Arg	Xaa	Gly	Met
		35				40					45				
Leu	Gln	Glu	Lys	Lys	Ala	Ala	Leu	His	Lys	Lys	Val	Arg	Leu	Glu	Ile
50					55						60				
Ala	Asp	Xaa	Arg	Arg	Arg	Gln	Lys	Leu	Glu	Ser	Ala	Arg	Val	Lys	Thr
65					70					75				80	
Glu	Ser	Leu	Ile	Met	Asp	Asp	Ile	His	Leu	Glu	Leu	Leu	Glu	Leu	Leu
			85						90					95	
Glu	Leu	Tyr	Cys	Glu	Thr	Leu	Tyr	Ala	Arg	Phe	Gly	Leu	Leu	Glu	Gly
		100						105					110		
Arg	Asp	Asn	Glu	Pro	Asp	Asp	Ala	Ile	Arg	Glu	Pro	Met	Ile	Ala	Ile
		115					120					125			
Ile	His	Ala	Ala	His	Arg	Thr	Glu	Val	Lys	Glu	Leu	His	Val	Leu	Gln
		130				135						140			
Asn	Met	Leu													

145

<210> 1947

<211> 472

<212> DNA

<213> Homo sapiens

<400> 1947

cggccgtgta ggccgtgacg gtgaccaaca gagccacagc gggcccgctg taggcgggag  
 60  
 gactgtgccg caggtgcagg agggtcagat ggaacaaaaa ggccagggcg gcctccacaa  
 120  
 gcgccccgtg gggcacggat gtgcgcaggg ccgagctgca gctctgggcc atgaggctct  
 180  
 gcagcagggtg caggtcactg agctcccagg cccagcagag gcgcgtcagg gtgcaggcgg  
 240  
 cctgcatgcc cagccccctgt gccgccagct tcagcagcgt gccaggcaga gactcctcgg  
 300  
 ccatgaggaa ctctgcagg gacacggtgg ggttggccga ggccecgctc aaggtgaccc  
 360  
 cgtgcgccag gaagagcagg aagagcaggg tgagcagcag gtcaggccca aagtccccag  
 420

cccaggggccc gagctcgaac agcgtcctca tctccaggaa gcaggccccg ag  
472

<210> 1948

<211> 150

<212> PRT

<213> Homo sapiens

<400> 1948

Met	Arg	Thr	Leu	Phe	Glu	Leu	Gly	Pro	Trp	Ala	Gly	Asp	Phe	Gly	Pro
1			5					10					15		
Asp	Leu	Leu	Leu	Thr	Leu	Leu	Phe	Leu	Leu	Phe	Leu	Ala	His	Gly	Val
	20						25					30			
Thr	Leu	Asp	Gly	Ala	Ser	Ala	Asn	Pro	Thr	Val	Ser	Leu	Gln	Glu	Phe
	35						40				45				
Leu	Met	Ala	Glu	Glu	Ser	Leu	Pro	Gly	Thr	Leu	Leu	Lys	Leu	Ala	Ala
	50					55					60				
Gln	Gly	Leu	Gly	Met	Gln	Ala	Ala	Cys	Thr	Leu	Thr	Arg	Leu	Cys	Trp
65					70			75					80		
Ala	Trp	Glu	Leu	Ser	Asp	Leu	His	Leu	Leu	Gln	Ser	Leu	Met	Ala	Gln
				85				90				95			
Ser	Cys	Ser	Ser	Ala	Leu	Arg	Thr	Ser	Val	Pro	His	Gly	Ala	Leu	Val
			100				105					110			
Glu	Ala	Ala	Cys	Ala	Phe	Cys	Phe	His	Leu	Thr	Leu	Leu	His	Leu	Arg
	115					120					125				
His	Ser	Pro	Pro	Ala	Tyr	Ser	Gly	Pro	Ala	Val	Ala	Leu	Leu	Val	Thr
	130					135					140				
Val	Thr	Ala	Tyr	Thr	Ala										
145					150										

<210> 1949

<211> 395

<212> DNA

<213> Homo sapiens

<400> 1949

acgcgttgag ggaggcgaca tgcttcatga gcgcttgccg ccactgctca agcgacatct  
60  
gccccttgct gatgttgcaa ggcggacagg acggcatgta attcgactcg acgtcacgct  
120  
ccggatgcct cgacggggacg etcacaagct tccattggcc attcgcggtt cgcttggtct  
180  
cgacgcgcgc tacaaccggg tctacatggt cgccatgccca ccgatcgggc aatggcattc  
240  
cacagtacgc gcagcgggccg tcgtatttgc gccggagccg atcgcgctgt gctttcgtca  
300  
gccggctcac gctttatgct ccacggcagg tgtggcagca tcctggcagg cgactccaag  
360  
atccgcgcct gcgtcacgct tgacgggcgc ggggtt  
395

<210> 1950

<211> 125

<212> PRT

&lt;213&gt; Homo sapiens

&lt;400&gt; 1950

```

Met Leu His Glu Arg Leu Ala Pro Leu Leu Lys Arg His Leu Pro Leu
 1             5             10             15
Ala Asp Val Ala Arg Arg Thr Gly Arg His Val Ile Arg Leu Asp Val
      20             25             30
Thr Leu Arg Met Pro Arg Arg Asp Ala His Lys Leu Pro Leu Ala Ile
      35             40             45
Arg Gly Ser Leu Gly Leu Asp Arg Ala Tyr Asn Arg Val Tyr Met Val
      50             55             60
Ala Met Pro Pro Ile Gly Gln Trp His Ser Thr Val Arg Ala Ala Ala
      65             70             75             80
Val Val Phe Ala Pro Glu Pro Ile Ala Leu Cys Phe Arg Gln Pro Ala
      85             90             95
His Ala Leu Cys Ser Thr Ala Gly Val Ala Ala Ser Trp Gln Ala Thr
      100            105            110
Pro Arg Ser Ala Pro Ala Ser Ser Leu Thr Ala Pro Gly
      115            120            125

```

&lt;210&gt; 1951

&lt;211&gt; 363

&lt;212&gt; DNA

&lt;213&gt; Homo sapiens

&lt;400&gt; 1951

```

cggcgcgcgc ctctccgctc ccggggccccc gccgccaccg cgcgcccccgc gggagatgga
60
acagcgggaac cggctcgggtg ccctcgggata cctgccgcct ctgctgctgc atgccctgct
120
gctcttcctg ggcgacgctg cattcacaga agtccccaaa gatgtgacag tacgggaggg
180
agacgacatc gaaatgccct gcgcgttccg ggccagcggga gccacctcgt attcgtcgga
240
gattcagtgt tggtaacctca aggagccacc ccgggagctg ctgcacgagc tggcgctcag
300
cgtgccgggc gcccgaggca aggtaacaaa taaggatgca actaaaatca gcaccgtacg
360
cgt
363

```

&lt;210&gt; 1952

&lt;211&gt; 110

&lt;212&gt; PRT

&lt;213&gt; Homo sapiens

&lt;400&gt; 1952

```

Arg Pro Pro Pro Leu Arg Ser Arg Ala Pro Ala Ala Thr Ala Pro Pro
 1             5             10             15
Ala Gly Asp Gly Thr Ala Glu Pro Ala Arg Cys Pro Arg Ile Pro Ala
      20             25             30
Ala Ser Ala Ala Ala Cys Pro Ala Ala Leu Arg Gly Arg Arg Cys Ile
      35             40             45
His Arg Ser Pro Gln Arg Cys Asp Ser Thr Gly Gly Arg Arg His Arg

```

```

      50              55              60
Asn Ala Leu Arg Val Pro Gly Gln Arg Ser His Leu Val Phe Ala Gly
65              70              75              80
Asp Ser Val Val Val Pro Gln Gly Ala Thr Pro Gly Ala Ala Ala Arg
      85              90              95
Ala Gly Ala Gln Arg Ala Gly Arg Pro Glu Gln Gly Asn Lys
      100              105              110

```

<210> 1953  
 <211> 329  
 <212> DNA  
 <213> Homo sapiens

```

<400> 1953
acgcgtcagc ctgagcccaa taactataaa agagtcgcaa ccatgactgt gctattgagt
60
gagcgcagcc agattttccg ggggtccgat gcctacgcgg tgtcggacta cgtaaccag
120
catgtgggca gccactgcat tcgcctgcct cccaagggcc ggccacgggc gagtatcagc
180
catcgcacct ttgccagcct ggacctgtgc cgcacatgct acggcgctcc ggtacgggtc
240
acatcggtgg cgctggagac catctatcac ctgcagatcc tgttgagcgg gcattgccgc
300
tccagctccc gtggtgagga tgacgtggn
329

```

<210> 1954  
 <211> 109  
 <212> PRT  
 <213> Homo sapiens

```

<400> 1954
Thr Arg Gln Pro Glu Pro Asn Asn Tyr Lys Arg Val Ala Thr Met Thr
1      5      10      15
Val Leu Leu Ser Glu Arg Ser Gln Ile Phe Arg Gly Ala Asp Ala Tyr
20      25      30
Ala Val Ser Asp Tyr Val Asn Gln His Val Gly Ser His Cys Ile Arg
35      40      45
Leu Pro Pro Lys Gly Arg Pro Arg Ala Ser Ile Ser His Arg Thr Phe
50      55      60
Ala Ser Leu Asp Leu Cys Arg Ile Ser Tyr Gly Ala Pro Val Arg Val
65      70      75      80
Thr Ser Val Ala Leu Glu Thr Ile Tyr His Leu Gln Ile Leu Leu Ser
85      90      95
Gly His Cys Arg Ser Ser Ser Arg Gly Glu Asp Asp Val
100      105

```

<210> 1955  
 <211> 415  
 <212> DNA  
 <213> Homo sapiens

<400> 1955

acgcgtggct cgacgaaac caagtacgag acatgccga caaggtacta tcacacatgg  
60  
tggaatactg ctggggggcgc ttcacagaca acatcaaata cgctgtagct gcccaatatt  
120  
ggaagggccc acacaagccc gatagtgacc atcaacggat cattgtaggc tatttcaaaa  
180  
ccgccaaaca agccatgaac gcagcaaaac aattccactg gaacaccggc ctacaacaac  
240  
aatggaaaaa atggatactc ccagtccaca acggcacctg gtccgagttt ttcacccaac  
300  
aaaaaacttt gctagacgag caagacgata gcaatagcga gctgccggag catctacaaa  
360  
acgtcatgtg cggcaaaaaca ctccaccacc aagacgacac catatcgtgg tgcac  
415

<210> 1956

<211> 127

<212> PRT

<213> Homo sapiens

<400> 1956

Met	Pro	Asp	Lys	Val	Leu	Ser	His	Met	Val	Glu	Tyr	Cys	Trp	Gly	Arg
1				5					10					15	
Phe	Thr	Asp	Asn	Ile	Lys	Tyr	Ala	Val	Ala	Ala	Gln	Tyr	Trp	Lys	Gly
			20					25					30		
Pro	His	Lys	Pro	Asp	Ser	Asp	His	Gln	Arg	Ile	Ile	Val	Gly	Tyr	Phe
		35					40					45			
Lys	Thr	Ala	Lys	Gln	Ala	Met	Asn	Ala	Ala	Lys	Gln	Phe	His	Trp	Asn
	50					55					60				
Thr	Arg	Leu	Gln	Gln	Gln	Trp	Lys	Thr	Trp	Ile	Leu	Pro	Val	His	Asn
	65				70					75				80	
Gly	Thr	Val	Ser	Glu	Phe	Phe	Thr	Gln	Gln	Lys	Thr	Leu	Leu	Asp	Glu
			85						90					95	
Gln	Asp	Asp	Ser	Asn	Ser	Glu	Leu	Pro	Glu	His	Leu	Gln	Asn	Val	Met
			100					105					110		
Cys	Gly	Lys	Thr	Leu	His	His	Gln	Asp	Asp	Thr	Ile	Ser	Trp	Cys	
		115					120						125		

<210> 1957

<211> 526

<212> DNA

<213> Homo sapiens

<400> 1957

acgcgttccg gagagatttt cetaacctct ctccgagctg ctgagccgat cggtgaccac  
60  
caggagctcc tccctgtgag gacaaagttc cagagtcggg gtcacggggc ttacttattg  
120  
gggaggaggc ccgccggggc cgcagtgggc gagggggcct tggcgcgctc ctgggaggtc  
180  
agacctggca cagtgtggcg aaggtttcca gtgcgatccc gagtgcaggg cgcatttcgc  
240  
ggtgactgcc agcatgaacc gcagccgacc gaggttctgcg atcgggcttc tccgcagagt  
300

ggggaccctg gggaaggcgc caacttctct cctctgccca cctcactccc cgcggggctc  
 360  
 cctggggcgc ctgcccgggc cgcactgggc ggcctccatc gtccttccc tctacctgca  
 420  
 ctgccccagg cgaggagag gccttggccc nncgaggcac cagctgcagc gggcagcggg  
 480  
 gtctctctcc cccaaccccc gcccctggc acggggctga accggt  
 526

<210> 1958

<211> 175

<212> PRT

<213> Homo sapiens

<400> 1958

Thr	Arg	Ser	Gly	Ile	Phe	Leu	Thr	Ser	Leu	Arg	Ala	Ala	Glu	Pro	
1			5					10					15		
Ile	Gly	Asp	His	Gln	Glu	Leu	Leu	Pro	Val	Arg	Thr	Lys	Phe	Gln	Ser
			20					25					30		
Arg	Gly	His	Gly	Pro	Tyr	Leu	Leu	Gly	Arg	Arg	Pro	Ala	Gly	Ala	Ala
		35					40					45			
Val	Gly	Glu	Gly	Pro	Leu	Ala	Arg	Ser	Trp	Glu	Val	Arg	Pro	Gly	Thr
	50					55				60					
Val	Trp	Arg	Arg	Phe	Pro	Val	Arg	Ser	Arg	Val	Glu	Gly	Ala	Phe	Arg
65				70					75					80	
Gly	Asp	Cys	Gln	His	Glu	Pro	Gln	Pro	Thr	Glu	Phe	Cys	Asp	Arg	Ala
			85					90					95		
Ser	Pro	Gln	Ser	Gly	Asp	Pro	Gly	Glu	Gly	Ala	Asn	Phe	Ser	Pro	Leu
			100				105						110		
Pro	Thr	Ser	Leu	Pro	Ala	Gly	Val	Pro	Gly	Pro	Pro	Ala	Arg	Ala	Ala
			115				120					125			
Leu	Gly	Gly	Leu	His	Arg	Pro	Phe	Pro	Leu	Pro	Ala	Leu	Pro	Gln	Ala
	130					135					140				
Gly	Glu	Arg	Pro	Trp	Pro	Xaa	Glu	Gly	Pro	Ala	Ala	Ala	Gly	Ser	Gly
145				150					155					160	
Val	Leu	Leu	Pro	Gln	Pro	Pro	Pro	His	Gly	Thr	Gly	Leu	Asn	Arg	
			165					170					175		

<210> 1959

<211> 378

<212> DNA

<213> Homo sapiens

<400> 1959

gtgcaccgga cggctcctcc aacggatcat ggcacggccc agcgggaaggc tcaccgcagtg  
 60  
 cgtcagaagg atcagggcgc ttgtcgtcgt cagacttcag gacatccac gacatggtag  
 120  
 acggctggga ggagaccttg tcccgcgcg tcttggcgcc gacaacaaca ccgctcatgg  
 180  
 tgtattttcc ggcagtagtg aagaaccagt gggcatgctg atgaccttg atcggcagtg  
 240  
 aggtcctttt gaccacctga tatgtgtcat cagcgaggaa ggtgccgagt ttggcgcttc  
 300

cgctgcctc ggggtgaattg ccgaggaggt acatcttgcc tggaccgta atcgcggtga  
 360  
 agtcgacg cgcaacgcgt  
 378

<210> 1960  
 <211> 111  
 <212> PRT  
 <213> Homo sapiens

<400> 1960  
 Met Tyr Leu Leu Gly Asn Ser Pro Glu Ala Asp Glu Asn Ala Lys Leu  
 1 5 10 15  
 Gly Thr Phe Leu Ala Asp Asp Thr Tyr Gln Val Val Lys Gly Ala Ser  
 20 25 30  
 Leu Pro Ile Lys Gly His Gln His Ala His Trp Phe Phe Thr His Ala  
 35 40 45  
 Gly Lys Tyr Thr Met Ser Gly Val Val Val Gly Ala Lys Thr Asp Gly  
 50 55 60  
 Asp Lys Val Ser Ser Gln Pro Phe Thr Met Ser Trp Asp Val Leu Lys  
 65 70 75 80  
 Ser Asp Asp Asp Lys Arg Pro Asp Pro Ser Asp Asp Ser Gly Glu Pro  
 85 90 95  
 Ser Ala Gly Pro Ser His Asp Pro Leu Glu Glu Pro Ser Gly Ala  
 100 105 110

<210> 1961  
 <211> 384  
 <212> DNA  
 <213> Homo sapiens

<400> 1961  
 ggatccacc cggaaaccgg caggatgaag ggggcaagtg aggagaagct ggcattctgtg  
 60  
 tccaacctgt tcaactgtgt tgagaatagc aggacccag aagcagcacc cagaggccag  
 120  
 aggctagagg acgtgcatca ccgccctgag tgcaggcctc ccgagtcccc aggaccacgg  
 180  
 gagaagacga atgtcgggga ggcctgtggg tctgagccca ggacagtcag caggaggtac  
 240  
 ctgaactccc tgaagaacaa gctgtccagc gaagcctgga ggaatatctt ccagcctgtg  
 300  
 accctctcag gatcggggac gcaggagcca gagaagaaga tcgtccagga gctgctggag  
 360  
 acagagcagg cctatgtggc gcgc  
 384

<210> 1962  
 <211> 128  
 <212> PRT  
 <213> Homo sapiens

<400> 1962  
 Gly Ser Thr Pro Glu Thr Gly Arg Met Lys Gly Ala Ser Glu Glu Lys

```

      1             5             10             15
Leu Ala Ser Val Ser Asn Leu Val Thr Val Phe Glu Asn Ser Arg Thr
      20             25             30
Pro Glu Ala Ala Pro Arg Gly Gln Arg Leu Glu Asp Val His His Arg
      35             40             45
Pro Glu Cys Arg Pro Pro Glu Ser Pro Gly Pro Arg Glu Lys Thr Asn
      50             55             60
Val Gly Glu Ala Val Gly Ser Glu Pro Arg Thr Val Ser Arg Arg Tyr
      65             70             75             80
Leu Asn Ser Leu Lys Asn Lys Leu Ser Ser Glu Ala Trp Arg Lys Ser
      85             90             95
Cys Gln Pro Val Thr Leu Ser Gly Ser Gly Thr Gln Glu Pro Glu Lys
      100            105            110
Lys Ile Val Gln Glu Leu Leu Glu Thr Glu Gln Ala Tyr Val Ala Arg
      115            120            125

```

&lt;210&gt; 1963

&lt;211&gt; 323

&lt;212&gt; DNA

&lt;213&gt; Homo sapiens

&lt;400&gt; 1963

```

nnncccttcc taccctcecca tactccccac cccctcttcc cccctgtgac tgagcttgca
60
ggcatgaaac acccacctgg cctctctccc tctgttttgc cccctctgtc gtctctctcc
120
cacagctgcc tggctcttcg gcgtcagtc accaccttct gcagctctcc ctcaccctgg
180
cgaccaactca ggcatgcata tcgcggggccc ccttcagacc tctcggggtc atcttccccct
240
tccctggcca ttatttttct tcactctgggc tggggcccgga gggcgcttcc ccccttctct
300
cttcttttct tttttttctc ttt
323

```

&lt;210&gt; 1964

&lt;211&gt; 107

&lt;212&gt; PRT

&lt;213&gt; Homo sapiens

&lt;400&gt; 1964

```

Xaa Pro Phe Leu Pro Ser His Thr Pro His Pro Ser Ser Ser Pro Cys
      1             5             10             15
Ala Glu Leu Ala Gly Met Lys His Pro Pro Gly Leu Ser Pro Ser Val
      20             25             30
Leu Pro Leu Leu Ser Ser Leu Ser His Ser Cys Leu Ala Leu Arg Arg
      35             40             45
Gln Ser Thr Thr Phe Cys Ser Ser Pro Ser Pro Trp Arg Pro Leu Arg
      50             55             60
His Ala Ser Arg Gly Pro Pro Ser Asp Leu Ser Gly Ser Ser Ser Pro
      65             70             75             80
Ser Leu Ala Ile Ile Phe Leu His Leu Gly Trp Ala Arg Arg Gly Val
      85             90             95
Pro Pro Leu Pro Leu Leu Ser Phe Phe Phe Ser

```

100

105

&lt;210&gt; 1965

&lt;211&gt; 1416

&lt;212&gt; DNA

&lt;213&gt; Homo sapiens

&lt;400&gt; 1965

cggctggggc aggagctgga cgacgccacc atggacctgg agcagcagcg gcagcttggtg  
 60  
 agcacctctgg agaagaagca gcgcaagttt gaccagcttc tggcagagga gaaggcagct  
 120  
 gtacttcggg cagtggagga acgtgagcgg gccgaggcag agggccggga gcgtgaggct  
 180  
 cgggccctgt cactgacacg ggcaactggag gaggagcagg agggcacgtga ggagctggag  
 240  
 cggcagaacc gggccctgcg ggctgagctg gaggcactgc tgagcagcaa ggatgacgtc  
 300  
 ggcaagagcg tgcattgagct ggaacgagcc tgccgggtag cagaacaggc agccaatgat  
 360  
 ctgcgagcac aggtgacaga actggaggat gagctgacag cggccgagga tgccaagctg  
 420  
 cgtctggagg tgactgtgca ggctctcaag actcagcatg agcgtgacct gcagggccgt  
 480  
 gatgaggctg gtgaagagag gcggaggcag ctggccaagc agctgagaga tgcagaggtg  
 540  
 gagcgggatg aggagcggaa gcagcgcaact ctggccgttg ctgcccga aaagctggag  
 600  
 ggagagctgg aggagctgaa ggctcagatg gcctctgccg gccagggcaa ggaggaggcg  
 660  
 gtgaagcagc ttcgcaagat gcaggccag atgaaggagc tatggcggga ggtggaggag  
 720  
 acacgcacct cccgggagga gatcttctcc cagaatcggg aaagtga aaa gcgcctcaag  
 780  
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 1380

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1416

<210> 1966

<211> 472

<212> PRT

<213> Homo sapiens

<400> 1966

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			20					25					30		
Leu	Leu	Ala	Glu	Glu	Lys	Ala	Ala	Val	Leu	Arg	Ala	Val	Glu	Glu	Arg
			35				40					45			
Glu	Arg	Ala	Glu	Ala	Glu	Gly	Arg	Glu	Arg	Glu	Ala	Arg	Ala	Leu	Ser
			50			55					60				
Leu	Thr	Arg	Ala	Leu	Glu	Glu	Glu	Gln	Glu	Ala	Arg	Glu	Glu	Leu	Glu
65					70				75					80	
Arg	Gln	Asn	Arg	Ala	Leu	Arg	Ala	Glu	Leu	Glu	Ala	Leu	Leu	Ser	Ser
			85					90					95		
Lys	Asp	Asp	Val	Gly	Lys	Ser	Val	His	Glu	Leu	Glu	Arg	Ala	Cys	Arg
			100					105					110		
Val	Ala	Glu	Gln	Ala	Ala	Asn	Asp	Leu	Arg	Ala	Gln	Val	Thr	Glu	Leu
			115				120					125			
Glu	Asp	Glu	Leu	Thr	Ala	Ala	Glu	Asp	Ala	Lys	Leu	Arg	Leu	Glu	Val
			130			135					140				
Thr	Val	Gln	Ala	Leu	Lys	Thr	Gln	His	Glu	Arg	Asp	Leu	Gln	Gly	Arg
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Asp	Glu	Ala	Gly	Glu	Glu	Arg	Arg	Arg	Gln	Leu	Ala	Lys	Gln	Leu	Arg
			165					170					175		
Asp	Ala	Glu	Val	Glu	Arg	Asp	Glu	Glu	Arg	Lys	Gln	Arg	Thr	Leu	Ala
			180					185					190		
Val	Ala	Ala	Arg	Lys	Lys	Leu	Glu	Gly	Glu	Leu	Glu	Glu	Leu	Lys	Ala
			195				200					205			
Gln	Met	Ala	Ser	Ala	Gly	Gln	Gly	Lys	Glu	Glu	Ala	Val	Lys	Gln	Leu
			210			215						220			
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Leu	Ala	Ala	Ser	Asp	Arg	Ala	Arg	Gln	Ala	Gln	Gln	Asp	Arg	Asp	
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			290			295					300				
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305					310				315					320	
Glu	Leu	Glu	Glu	Glu	Gln	Thr	Xaa	Ser	Glu	Leu	Leu	Asn	Asp	Arg	Tyr
			325					330					335		
Arg	Lys	Leu	Leu	Leu	Gln	Val	Glu	Ser	Leu	Thr	Thr	Glu	Leu	Ser	Ala
			340				345					350			
Glu	Arg	Ser	Phe	Ser	Ala	Lys	Ala	Glu	Ser	Gly	Arg	Gln	Gln	Leu	Glu

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          355                      360                      365
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385                      390                      395                      400
Ala  Gln  Ala  Glu  Glu  Gln  Leu  Glu  Gln  Glu  Thr  Arg  Glu  Arg  Ile  Leu
          405                      410                      415
Ser  Gly  Lys  Leu  Val  Pro  Lys  Ser  Lys  Lys  Arg  Phe  Lys  Glu  Val  Val
          420                      425                      430
Leu  Gln  Val  Glu  Glu  Glu  Arg  Arg  Val  Ala  Asp  Gln  Leu  Arg  Asp  Gln
          435                      440                      445
Leu  Glu  Lys  Gly  Asn  Leu  Arg  Val  Lys  Gln  Leu  Lys  Arg  Gln  Leu  Glu
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Glu  Ala  Glu  Glu  Glu  Ala  Ser  Arg
465                      470

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&lt;210&gt; 1967

&lt;211&gt; 401

&lt;212&gt; DNA

&lt;213&gt; Homo sapiens

&lt;400&gt; 1967

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tgcatacatc ctgcgggcca gtcagctccc ctgggcttgc actcgtcgga gatgctggcc
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240
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gttatcatcg ataccaccgg cattctcttg ggtggcatga acgcctcatc tctagatatg
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caaacggcgg gggttttcat gcgctcgaga agctgatgct g
401

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&lt;210&gt; 1968

&lt;211&gt; 94

&lt;212&gt; PRT

&lt;213&gt; Homo sapiens

&lt;400&gt; 1968

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Gly  Asp  Ala  Gly  Leu  Ala  Pro  Asp  Pro  Leu  Trp  Gly  Val  Gly  Cys  Gly
          20              25              30
Trp  Ala  Phe  Gln  Ser  Ala  Ala  Trp  Leu  Val  Asp  Cys  Thr  Gly  Ser  His
          35              40              45
Leu  Ala  Asp  Arg  Thr  Ala  Leu  Asp  Arg  Ala  Leu  Arg  Ser  Tyr  His  Arg
          50              55              60
Tyr  His  Arg  His  Ser  Leu  Gly  Trp  His  Glu  Arg  Leu  Ile  Ser  Arg  Tyr
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Ala  Asn  Gly  Arg  Gly  Phe  His  Ala  Leu  Glu  Lys  Leu  Met  Leu

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85

90

<210> 1969  
 <211> 464  
 <212> DNA  
 <213> Homo sapiens

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 120  
 cagggtcatgg cgaccagcg tgatctcaaa ccgtcagtat tcgtcaacct ctctctctcg  
 180  
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 240  
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<210> 1970  
 <211> 154  
 <212> PRT  
 <213> Homo sapiens

<400> 1970  
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 20 25 30  
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 35 40 45  
 Leu Lys Pro Ser Val Phe Val Asn Leu Ser Ser Ser Glu Gly Leu Pro  
 50 55 60  
 Val Ser Met Met Glu Val Ala Ser Leu Gly Ile Pro Ile Ile Ala Thr  
 65 70 75 80  
 Gly Val Gly Gly Val Gly Glu Ile Val Ser Ser Asp Asn Gly His Leu  
 85 90 95  
 Leu Pro Ala Glu Phe Thr Asp Thr Gln Ala Ser Asp Ala Leu Val Gln  
 100 105 110  
 Leu Ala Arg Leu Ser Glu Asp Glu Tyr Gln Gln Val Cys Gln Ala Ser  
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 Arg Gln Val Trp Glu Glu Lys Phe Arg Ala Ser Val Val Tyr Pro Glu  
 130 135 140  
 Phe Cys Arg Glu Cys Trp Gly Asp Ala Asp  
 145 150

<210> 1971  
 <211> 520

&lt;212&gt; DNA

&lt;213&gt; Homo sapiens

&lt;400&gt; 1971

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 120  
 acagacgagc acaaaaaacaa ttagagcatc agttgatata atacaaatgg aatataatgc  
 180  
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 360  
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 420  
 agaactaact caggataaag gagccagctt agaaaaagaa aacaatcggg gtaatgacca  
 480  
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 520

&lt;210&gt; 1972

&lt;211&gt; 118

&lt;212&gt; PRT

&lt;213&gt; Homo sapiens

&lt;400&gt; 1972

Met	Glu	Tyr	Asn	Ala	Ser	Asn	Ile	Ser	Asn	Ser	Arg	His	Asp	Ser	Asp
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Glu	Ile	Ser	Gly	Lys	Met	Asn	Thr	Tyr	Met	Asn	Ser	Thr	Thr	Ser	Lys
			20					25					30		
Lys	Asp	Thr	Gly	Val	Gln	Thr	Asp	Asp	Leu	Asn	Ile	Gly	Ile	Phe	Thr
			35				40					45			
Asn	Ala	Glu	Ser	His	Cys	Gly	Ser	Leu	Met	Glu	Arg	Asp	Ile	Thr	Asn
			50			55					60				
Cys	Ser	Ser	Pro	Glu	Ile	Ser	Ala	Glu	Leu	Ile	Gly	Gln	Phe	Ser	Thr
			65			70				75			80		
Lys	Lys	Asn	Lys	Gln	Glu	Leu	Thr	Gln	Asp	Lys	Gly	Ala	Ser	Leu	Glu
			85						90				95		
Lys	Glu	Asn	Asn	Arg	Cys	Asn	Asp	Gln	Cys	Asn	Gln	Phe	Thr	Arg	Ile
			100				105						110		
Glu	Lys	Gln	Thr	Lys	Gln										
			115												

&lt;210&gt; 1973

&lt;211&gt; 331

&lt;212&gt; DNA

&lt;213&gt; Homo sapiens

&lt;400&gt; 1973

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 180  
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 240  
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<210> 1974  
 <211> 103  
 <212> PRT  
 <213> Homo sapiens

<400> 1974  
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 Glu Glu Leu Gln Ala Met Asn Ser Asp Thr Arg Phe Thr Thr Ser Val  
 35 40 45  
 Gly Ile Asp Leu Ser Pro Ala Arg Ser Phe Ser Ala Trp Ala Leu Arg  
 50 55 60  
 Gly Thr Thr Phe Ser Ala Pro Ser Met Thr Lys Ala Ser Arg Ser Ser  
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<210> 1975  
 <211> 370  
 <212> DNA  
 <213> Homo sapiens

<400> 1975  
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 370

<210> 1976

<211> 121  
 <212> PRT  
 <213> Homo sapiens

<400> 1976  
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 Arg Leu Arg Gly Gly Leu His Gln Ser Arg Asn Leu Gly Asp Arg Val  
 35 40 45  
 Val Gly Val Gly Leu Cys Leu Arg Arg Asp Val Ala Arg Ser Leu Arg  
 50 55 60  
 Gln Arg Ile Ala Asn Leu Leu Thr Ala Arg Arg Val Gly Thr Arg  
 65 70 75 80  
 Leu Leu Pro Arg Leu Ala Gln Leu Gly Ala His Cys Thr Gln Arg Ile  
 85 90 95  
 Gly Pro Ser Arg Gln Thr Leu Leu Val Ala Gly Leu Gln Arg Gly Leu  
 100 105 110  
 Gln Leu His Glu Arg Leu Ala Arg Arg  
 115 120

<210> 1977  
 <211> 551  
 <212> DNA  
 <213> Homo sapiens

<400> 1977  
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 420  
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<210> 1978  
 <211> 101  
 <212> PRT  
 <213> Homo sapiens

&lt;400&gt; 1978

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          20          25          30
Pro Leu Pro Ala Val Ser Pro Thr Ser Phe Ile Pro Pro Val Thr Arg
          35          40          45
Glu Val Gln Ile Phe Gln Pro Gly His Cys Leu Pro Ser Arg Leu Ala
          50          55          60
Pro Pro Val His Leu Leu Cys Ser Ser Leu Cys Asn Ser Leu Ala Ala
65          70          75          80
Cys Leu Leu Ser Pro Leu Thr Gln Leu Leu Thr Cys Pro Thr Pro Ala
          85          90          95
Gln Pro Thr Ser Ser
          100

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&lt;210&gt; 1979

&lt;211&gt; 5530

&lt;212&gt; DNA

&lt;213&gt; Homo sapiens

&lt;400&gt; 1979

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120
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960

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3600  
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3780  
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3840  
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3900  
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4140  
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4200

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 4260  
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 4320  
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 4380  
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 4740  
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 4800  
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 4860  
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 4920  
 catttgctgc tgcaagaga attaggagag aggttaattg tacttttttc cattttggaa  
 4980  
 ataattttta tcaagtaact caaatgtgac aaaatttatt tttatttttt gtggttatat  
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 5340  
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 5400  
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 5460  
 tttaaaatgt ctagaattca ggatgctagg ggctacttct ccaaaaaaaaa aaaaaaaaaa  
 5520  
 aaaaaaaaaa  
 5530

&lt;210&gt; 1980

&lt;211&gt; 929

&lt;212&gt; PRT

&lt;213&gt; Homo sapiens

&lt;400&gt; 1980

Met Leu Leu Gly Trp Ala Ser Leu Leu Leu Cys Ala Phe Arg Leu Pro

1	5	10	15
Leu Ala Ala Val Gly Pro Ala Ala Thr Pro Ala Gln Asp Lys Ala Gly			
	20	25	30
Gln Pro Pro Thr Ala Ala Ala Ala Ala Gln Pro Arg Arg Arg Gln Gly			
	35	40	45
Glu Glu Val Gln Glu Arg Ala Glu Pro Pro Gly His Pro His Pro Leu			
	50	55	60
Ala Gln Arg Arg Arg Ser Lys Gly Leu Val Gln Asn Ile Asp Gln Leu			
	65	70	75
Tyr Ser Gly Gly Gly Lys Val Gly Tyr Leu Val Tyr Ala Gly Gly Arg			
	85	90	95
Arg Phe Leu Leu Asp Leu Glu Arg Asp Gly Ser Val Gly Ile Ala Gly			
	100	105	110
Phe Val Pro Ala Gly Gly Gly Thr Ser Ala Pro Trp Arg His Arg Ser			
	115	120	125
His Cys Phe Tyr Arg Gly Thr Val Asp Ala Ser Pro Arg Ser Leu Ala			
	130	135	140
Val Phe Asp Leu Cys Gly Gly Leu Asp Gly Phe Phe Ala Val Lys His			
	145	150	155
Ala Arg Tyr Thr Leu Lys Pro Leu Leu Arg Gly Pro Trp Ala Glu Glu			
	165	170	175
Glu Lys Gly Arg Val Tyr Gly Asp Gly Ser Ala Arg Ile Leu His Val			
	180	185	190
Tyr Thr Arg Arg Ala Ser Ala Ser Arg Pro Cys Arg Arg Ala Pro Ala			
	195	200	205
Ala Lys Pro Pro Arg Pro His Arg Arg Pro Thr Ser Met Leu Arg Arg			
	210	215	220
Thr Ala Thr Arg Ala Asp Ala Gln His Ala Ser Gln Leu Leu Asp Gln			
	225	230	235
Ser Ala Leu Ser Pro Ala Gly Gly Ser Gly Pro Gln Thr Trp Trp Arg			
	245	250	255
Arg Arg Arg Arg Ser Ile Ser Arg Ala Arg Gln Val Glu Leu Leu Leu			
	260	265	270
Val Ala Asp Ala Ser Met Ala Arg Leu Tyr Gly Arg Gly Leu Gln His			
	275	280	285
Tyr Leu Leu Thr Leu Ala Ser Ile Ala Asn Arg Leu Tyr Ser His Ala			
	290	295	300
Ser Ile Glu Asn His Ile Arg Leu Ala Val Val Lys Val Val Val Leu			
	305	310	315
Gly Asp Lys Asp Lys Ser Leu Glu Val Ser Lys Asn Ala Ala Thr Thr			
	325	330	335
Leu Lys Asn Phe Cys Lys Trp Gln His Gln His Asn Gln Leu Gly Asp			
	340	345	350
Asp His Glu Glu His Tyr Asp Ala Ala Ile Leu Phe Thr Arg Glu Asp			
	355	360	365
Leu Cys Gly His His Ser Cys Asp Thr Leu Gly Met Ala Asp Val Gly			
	370	375	380
Thr Ile Cys Ser Pro Glu Arg Ser Cys Ala Val Ile Glu Asp Asp Gly			
	385	390	395
Leu His Ala Ala Phe Thr Val Ala His Glu Ile Gly His Leu Leu Gly			
	405	410	415
Leu Ser His Asp Asp Ser Lys Phe Cys Glu Glu Thr Phe Gly Ser Thr			
	420	425	430
Glu Asp Lys Arg Leu Met Ser Ser Ile Leu Thr Ser Ile Asp Ala Ser			

435				440				445							
Lys	Pro	Trp	Ser	Lys	Cys	Thr	Ser	Ala	Thr	Ile	Thr	Glu	Phe	Leu	Asp
450				455				460							
Asp	Gly	His	Gly	Asn	Cys	Leu	Leu	Asp	Leu	Pro	Arg	Lys	Gln	Ile	Leu
465				470				475						480	
Gly	Pro	Glu	Glu	Leu	Pro	Gly	Gln	Thr	Tyr	Asp	Ala	Thr	Gln	Gln	Cys
				485				490						495	
Asn	Leu	Thr	Phe	Gly	Pro	Glu	Tyr	Ser	Val	Cys	Pro	Gly	Met	Asp	Val
500								505					510		
Cys	Ala	Arg	Leu	Trp	Cys	Ala	Val	Val	Arg	Gln	Gly	Gln	Met	Val	Cys
515								520				525			
Leu	Thr	Lys	Lys	Leu	Pro	Ala	Val	Glu	Gly	Thr	Pro	Cys	Gly	Lys	Gly
530								535				540			
Arg	Ile	Cys	Leu	Gln	Gly	Lys	Cys	Val	Asp	Lys	Thr	Lys	Lys	Lys	Tyr
545				550						555				560	
Tyr	Ser	Thr	Ser	Ser	His	Gly	Asn	Trp	Gly	Ser	Trp	Gly	Ser	Trp	Gly
				565						570				575	
Gln	Cys	Ser	Arg	Ser	Cys	Gly	Gly	Gly	Val	Gln	Phe	Ala	Tyr	Arg	His
				580				585					590		
Cys	Asn	Asn	Pro	Ala	Pro	Arg	Asn	Asn	Gly	Arg	Tyr	Cys	Thr	Gly	Lys
595							600					605			
Arg	Ala	Ile	Tyr	His	Ser	Cys	Ser	Leu	Met	Pro	Cys	Pro	Pro	Asn	Gly
610							615					620			
Lys	Ser	Phe	Arg	His	Glu	Gln	Cys	Glu	Ala	Lys	Asn	Gly	Tyr	Gln	Ser
625				630						635				640	
Asp	Ala	Lys	Gly	Val	Lys	Thr	Phe	Val	Glu	Trp	Val	Pro	Lys	Tyr	Ala
				645						650				655	
Gly	Val	Leu	Pro	Ala	Asp	Val	Cys	Lys	Leu	Thr	Cys	Arg	Ala	Lys	Gly
				660				665					670		
Thr	Gly	Tyr	Tyr	Val	Val	Phe	Ser	Pro	Lys	Val	Thr	Asp	Gly	Thr	Glu
				675				680				685			
Cys	Arg	Pro	Tyr	Ser	Asn	Ser	Val	Cys	Val	Arg	Gly	Lys	Cys	Val	Arg
690				695							700				
Thr	Gly	Cys	Asp	Gly	Ile	Ile	Gly	Ser	Lys	Leu	Gln	Tyr	Asp	Lys	Cys
705				710						715				720	
Gly	Val	Cys	Gly	Gly	Asp	Asn	Ser	Ser	Cys	Thr	Lys	Ile	Val	Gly	Thr
				725						730				735	
Phe	Asn	Lys	Lys	Ser	Lys	Gly	Tyr	Thr	Asp	Val	Val	Arg	Ile	Pro	Glu
				740				745				750			
Gly	Ala	Thr	His	Ile	Lys	Val	Arg	Gln	Phe	Lys	Ala	Lys	Asp	Gln	Thr
				755				760				765			
Arg	Phe	Thr	Ala	Tyr	Leu	Ala	Leu	Lys	Lys	Lys	Asn	Gly	Glu	Tyr	Leu
770				775							780				
Ile	Asn	Gly	Lys	Tyr	Met	Ile	Ser	Thr	Ser	Glu	Thr	Ile	Ile	Asp	Ile
785				790						795				800	
Asn	Gly	Thr	Val	Met	Asn	Tyr	Ser	Gly	Trp	Ser	His	Arg	Asp	Asp	Phe
				805						810				815	
Leu	His	Gly	Met	Gly	Tyr	Ser	Ala	Thr	Lys	Glu	Ile	Leu	Ile	Val	Gln
				820				825					830		
Ile	Leu	Ala	Thr	Asp	Pro	Thr	Lys	Pro	Leu	Asp	Val	Arg	Tyr	Ser	Phe
835				840								845			
Phe	Val	Pro	Lys	Lys	Ser	Thr	Pro	Lys	Val	Asn	Ser	Val	Thr	Ser	His
850				855						860					
Gly	Ser	Asn	Lys	Val	Gly	Ser	His	Thr	Ser	Gln	Pro	Gln	Trp	Val	Thr

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      865                870                875                880
Gly Pro Trp Leu Ala Cys Ser Arg Thr Cys Asp Thr Gly Trp His Thr
      885                890                895
Arg Thr Val Gln Cys Gln Asp Gly Asn Arg Lys Leu Ala Lys Gly Cys
      900                905                910
Pro Leu Ser Gln Arg Pro Ser Ala Phe Lys Gln Cys Leu Leu Lys Lys
      915                920                925
Cys

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&lt;210&gt; 1981

&lt;211&gt; 327

&lt;212&gt; DNA

&lt;213&gt; Homo sapiens

&lt;400&gt; 1981

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tcatgaatgg tgtacaggcc ttttctggtg ccttcggcga tgggcatcc gggatccgtt
60
ggcgccgcta ctttgaacga gtctatgtgc gcaagcaggc ttggcgtaa cccgcgtggg
120
gtcgataatc gcacgtcaat ggccgtgttt tcgcccgaag aagctgccgg aggcggggcg
180
tgccccgggc cttgccgaat aatggcttgg ccggggcaac gggcctcatc gtcgggacgg
240
gggcgtggcc cggcgtgtgc ggaatgggag tcttgcttga atggttcaaa agtgcgcgcg
300
ggctcgccgg gctcggaggc ggacgcn
327

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&lt;210&gt; 1982

&lt;211&gt; 107

&lt;212&gt; PRT

&lt;213&gt; Homo sapiens

&lt;400&gt; 1982

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Met Val Tyr Arg Pro Phe Leu Val Pro Ser Ala Met Gly Asp Pro Gly
1      5      10      15
Ser Val Gly Ala Ala Thr Leu Asn Glu Ser Met Cys Ala Ser Arg Leu
      20      25      30
Gly Val Asn Pro Arg Gly Val Asp Asn Arg Thr Ser Met Ala Val Phe
      35      40      45
Ser Pro Pro Lys Ala Ala Gly Gly Arg Cys Pro Gly Pro Cys Arg
      50      55      60
Ile Met Ala Trp Pro Gly Gln Arg Ala Ser Ser Ser Gly Arg Gly Arg
65      70      75      80
Gly Pro Ala Leu Ser Glu Trp Ala Ser Cys Leu Asn Gly Ser Lys Val
      85      90      95
Arg Ala Gly Ser Pro Gly Ser Glu Ala Asp Ala
      100      105

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&lt;210&gt; 1983

&lt;211&gt; 383

&lt;212&gt; DNA

&lt;213&gt; Homo sapiens

&lt;400&gt; 1983

ttcaacaaca tggatcatga gctgcgcgaa caacagcata taaaagacct attccgcgca  
 60  
 cacgtggggg caaaaattgc tgatcaggcg ctctctgctc agcctgaaga acgaaacgtc  
 120  
 ccaaagcgag acgcttctgt ctctcttatt gacattattg ggtctacaaa gtcagttta  
 180  
 gaatacgcaca gttacacgtg tgttgacctg ctcaatcgct tctacacaat tgtgttagag  
 240  
 gaagttaatc gtgcagggtg agtcgttaat aaattcgccg gcgatgcagt actagccatt  
 300  
 tttaatgtcc cgcacgatca cccggatcca gcaggcgcat cactctattg cgctcgggta  
 360  
 gttatgaacc gtttcgatca tga  
 383

&lt;210&gt; 1984

&lt;211&gt; 127

&lt;212&gt; PRT

&lt;213&gt; Homo sapiens

&lt;400&gt; 1984

Phe	Asn	Asn	Met	Val	His	Glu	Leu	Arg	Glu	Gln	Gln	His	Ile	Lys	Asp
1				5					10					15	
Leu	Phe	Arg	Gln	His	Val	Gly	Ser	Lys	Ile	Ala	Asp	Gln	Ala	Leu	Ser
			20					25				30			
Ala	Gln	Pro	Glu	Glu	Arg	Asn	Val	Pro	Lys	Arg	Asp	Ala	Ser	Val	Phe
		35					40					45			
Phe	Ile	Asp	Ile	Ile	Gly	Ser	Thr	Lys	Leu	Ser	Leu	Glu	Tyr	Asp	Ser
	50					55				60					
Tyr	Thr	Val	Val	Asp	Leu	Leu	Asn	Arg	Phe	Tyr	Thr	Ile	Val	Val	Glu
	65				70				75				80		
Glu	Val	Asn	Arg	Ala	Gly	Gly	Val	Val	Asn	Lys	Phe	Ala	Gly	Asp	Ala
			85						90				95		
Val	Leu	Ala	Ile	Phe	Asn	Val	Pro	His	Asp	His	Pro	Asp	Pro	Ala	Gly
			100					105					110		
Ala	Ser	Leu	Tyr	Cys	Ala	Arg	Val	Val	Met	Asn	Arg	Phe	Asp	His	
		115					120					125			

&lt;210&gt; 1985

&lt;211&gt; 381

&lt;212&gt; DNA

&lt;213&gt; Homo sapiens

&lt;400&gt; 1985

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 tagctgcagc ttgttagcac gtcggataag cgtttgctca tctgccgttt gggctgtttc  
 120  
 atccgattca aatactcgag gtgcagcgaa tggcctggcg aagggtgtgg gtctaccccc  
 180  
 tggaccccc attggttcgc aggccttata acccttgatg cgatccaggc ccatttgaac  
 240

cagaaccgaa gaaatatttt gcatgcgaaa ctcaattgag ccttcagtac ggccaaccaa  
 300  
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 360  
 ccacgccagc attttgaggt a  
 381

<210> 1986

<211> 124

<212> PRT

<213> Homo sapiens

<400> 1986

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Asn	Arg	Leu	Leu	Arg	Gln	Gly	Pro	Leu	Val	Gly	Arg	Thr	Glu	Gly	Ser
			20				25						30		
Ile	Glu	Phe	Arg	Met	Gln	Asn	Ile	Ser	Ser	Val	Leu	Val	Gln	Met	Gly
		35				40						45			
Leu	Asp	Arg	Ile	Lys	Gly	Tyr	Lys	Ala	Cys	Glu	Pro	Met	Trp	Gly	Pro
	50				55				60						
Gly	Gly	Arg	Pro	Thr	Thr	Phe	Ala	Arg	Pro	Phe	Ala	Asp	Thr	Arg	Val
65				70					75					80	
Phe	Glu	Ser	Asp	Glu	Thr	Ala	Gln	Thr	Ala	Asp	Glu	Gln	Thr	Leu	Ile
			85				90							95	
Arg	Arg	Ala	Asn	Lys	Leu	Gln	Leu	Lys	Arg	Phe	Asp	Gln	Val	Pro	Asp
			100				105						110		
Gly	Ile	Ala	Lys	Pro	Gln	Gln	Val	Pro	Ile	Thr	Ser				
	115						120								

<210> 1987

<211> 419

<212> DNA

<213> Homo sapiens

<400> 1987

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 120  
 atgatcaacc gttatctctt gcgcactccc gataagcagg ctttgagggt accgcagtag  
 180  
 ttctggatgc gcgtcgcgat ggggctgagc ctactgagg acgatccccc ttctcggcc  
 240  
 nctgccttt acgactccat gagcaacctg cgccacctgg ccgctggatc cacccttgtc  
 300  
 aatgcgggga cccatnccgc tcagctatct aactgcttcg tcatgcgcac tgaggacaat  
 360  
 ctggagcaca tcgccagac gatccgcgac gtcattgtga tcaccaaggg caccgtcgn  
 419

<210> 1988

<211> 139

<212> PRT

&lt;213&gt; Homo sapiens

&lt;400&gt; 1988

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Lys Leu Val Ala Asp Gly His Leu Asp Glu Arg Leu Gly Arg Asp Phe
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Asp Leu Glu Thr Leu Ala Ala Leu Asp Pro Thr Arg Asp Asp Leu
 20           25           30
Ile Gly Phe Met Gly Val Arg Thr Met Ile Asn Arg Tyr Leu Leu Arg
 35           40           45
Thr Pro Asp Lys Gln Ala Leu Glu Val Pro Gln Tyr Phe Trp Met Arg
 50           55           60
Val Ala Met Gly Leu Ser Leu Thr Glu Asp Asp Pro Thr Ser Ser Ala
 65           70           75           80
Xaa Cys Leu Tyr Asp Ser Met Ser Asn Leu Arg His Leu Ala Ala Gly
 85           90           95
Ser Thr Leu Val Asn Ala Gly Thr His Xaa Ala Gln Leu Ser Asn Cys
100           105           110
Phe Val Met Arg Thr Glu Asp Asn Leu Glu His Ile Ala Gln Thr Ile
115           120           125
Arg Asp Val Met Trp Ile Thr Lys Gly Thr Val
130           135

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&lt;210&gt; 1989

&lt;211&gt; 10795

&lt;212&gt; DNA

&lt;213&gt; Homo sapiens

&lt;400&gt; 1989

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tctgctgact ttgctcagga gcgccgttgg aaacgggggtg tggccccgaa ggtggtgcgc
120
atggtgatcc ggcaccacga ggagcagcgg cagaaagagg aacggggccc gagggaggag
180
caggccaagc tgcgtcgaat tgcttccacc atggccaagg atgtcaggca gttctggagc
240
aatgtggaga aggtggtgca attcaagcaa cagtcctggc ttgaggaaaa gcgcaaaaaa
300
gccctggacc tgcatttgga cttcatttgt gggcaaaactg aaaagtactc ggaccttctg
360
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420
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480
gactttcaac cccaagagga tgaggaagag gatgatgagg aaacgattga agttgaagaa
540
caacaggaag gcaatgatgc agaggcccgagg aggcgtgaga ttgagctgct tcgccgtgag
600
ggagaattgc cactggaaga gctgctccgt tccttcccc ctcagctggt ggaaggccct
660
tccagccctc ctcaaacccc ctcattctcat gatagtaca cccgagatgg gcctgaagaa
720
ggtgctgaag aagagccccc tcagggtgtg gagataaagc cccaccctc tgctgtcaca
780

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900  
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960  
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1020  
gatgaggttg atgctaatag ctctgactgt gaaccagagg gggccgtgga agcgggaagag  
1080  
cctcctcagg aggatagtag cagtcagtca gactctgttg aggaccggag tgaggatgag  
1140  
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1200  
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1260  
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1380  
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1440  
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1500  
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1560  
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1620  
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1740  
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1800  
gtgctgcagg accaccaggc ctccgtctgc aagaactggc gctatctcat tctggatgag  
1860  
gcgcagaaca tcaagaactt caagtcacag cgctggcagt cactcctcaa cttcaacagc  
1920  
cagagacgcc tgctctgac aggaactccc ttgcagaaca gcctcatgga gctgtggctc  
1980  
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2100  
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2160  
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2220  
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2280  
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2340  
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2400

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2460  
cttattggcc tggaaggtcg tgtctctcga tatgaggcag acacatttct gccccggcac  
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&lt;210&gt; 1991

&lt;211&gt; 3102

&lt;212&gt; DNA

&lt;213&gt; Homo sapiens

&lt;400&gt; 1991

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<210> 1992

<211> 733

<212> PRT

<213> Homo sapiens

<400> 1992

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			210			215				220					
Ile	Asn	Lys	Pro	Gly	Phe	Tyr	Lys	Gly	Pro	Ala	Gly	Ser	Gln	Val	Thr
225					230					235					240
Leu	Ser	Ser	Leu	Gly	Asn	Gln	Thr	Arg	Val	Leu	Leu	Glu	Glu	Gln	Ala
			245						250					255	
Arg	His	Leu	Leu	Asn	Glu	Gln	Glu	His	Thr	Thr	Met	Ala	Tyr	Tyr	Leu

```

                260                265                270
Asp Glu Tyr Arg Gly Gly Ser Val Ser Val Glu Ala Leu Val Met Ala
    275                280                285
Leu Phe Lys Leu Leu Asn Thr His Ala Lys Phe Ser Leu Leu Ser Glu
    290                295                300
Val Arg Gly Thr Ile Ser Pro Gln Asp Leu Glu Arg Phe Asp His Leu
    305                310                315
Val Leu Arg Arg Glu Ile Glu Ser Met Lys Ala Arg Gln Pro Pro Gly
    320                325                330
Pro Gly Ala Gly Asp Thr Tyr Ser Met Val Ser Tyr Ser Asp Thr Gly
    335                340                345
Ser Ser Thr Gly Ser His Gly Thr Ser Thr Thr Val Ser Ser Ala Arg
    350                355                360
Asn Thr Leu Asp Leu Glu Glu Thr Gly Glu Ala Val Gln Gly Asn Ile
    365                370                375
Asn Ala Leu Pro Asp Val Ser Val Asp Asp Val Arg Ser Thr Ser Gln
    380                385                390
Gly Leu Ser Ser Phe Lys Pro Leu Pro Arg Pro Pro Pro Leu Ala Gln
    395                400                405
Gly Asn Asp Leu Pro Leu Gly Gln Pro Asp Lys Leu Gly Arg Glu Asp
    410                415                420
Leu Gln Pro Pro Ser Ser Met Pro Ser Cys Ser Gly Thr Val Phe Ser
    425                430                435
Ala Pro Gln Asn Arg Ser Pro Pro Ala Gly Thr Ala Pro Thr Pro Gly
    440                445                450
Thr Ser Ser Ala Gln Asp Leu Pro Ser Ser Pro Ile Tyr Ala Ser Val
    455                460                465
Ser Pro Ala Asn Pro Ser Ser Lys Arg Pro Leu Asp Ala His Leu Ala
    470                475                480
Leu Val Asn Gln His Pro Ile Gly Pro Phe Pro Arg Val Gln Ser Pro
    485                490                495
Pro His Leu Lys Ser Pro Ser Ala Glu Ala Thr Val Ala Gly Gly Cys
    500                505                510
Leu Leu Pro Pro Ser Pro Ser Gly His Pro Asp Gln Thr Gly Thr Asn
    515                520                525
Gln His Phe Val Met Val Glu Val His Arg Pro Asp Ser Glu Pro Asp
    530                535                540
Val Asn Glu Val Arg Ala Leu Pro Gln Thr Arg Thr Ala Ser Thr Leu
    545                550                555
Ser Gln Leu Ser Asp Ser Gly Gln Thr Leu Ser Glu Asp Ser Gly Val
    560                565                570
Asp Ala Gly Glu Ala Glu Ala Ser Ala Pro Gly Arg Gly Arg Gln Ser
    575                580                585
Val Ser Thr Lys Ser Arg Ser Ser Lys Glu Leu Pro Arg Asn Glu Arg
    590                595                600
Pro Thr Asp Gly Ala Asn Lys Pro Pro Gly Leu Leu Glu Pro Thr Ser
    605                610                615
Thr Leu Val Arg Val Lys Lys Ser Ala Ala Thr Leu Gly Ile Ala Ile
    620                625                630
Glu Gly Gly Ala Asn Thr Arg Gln Pro Leu Pro Arg Ile Val Thr Ile
    635                640                645
Gln Arg Gly Gly Ser Ala His Asn Cys Gly Gln Leu Lys Val Gly His
    650                655                660
Val Ile Leu Glu Val Asn Gly Leu Thr Leu Arg Gly Lys Glu His Arg
    665                670                675

```

690	695	700
Glu Ala Ala Arg Ile Ile Ala Glu Ala Phe Lys Thr Lys Asp Arg Asp		
705	710	715
Tyr Ile Asp Phe Leu Val Thr Glu Phe Asn Val Met Leu		
725	730	

<210> 1993  
 <211> 957  
 <212> DNA  
 <213> Homo sapiens

<400> 1993  
 nngaaaaacct acgggatgac acgtgccctc gatcacatcg acatcgccat cccagctggc  
 60  
 cagtcggtcg ccgtcatggg gccgtccggg tcaggcaaga ccacctgtgt gcaactgttg  
 120  
 tcggggatcc tctcgctga ctccggcagt atcgaaactgg ctctgccgga cgcaccgtgc  
 180  
 aacgtcgaaa acctctctaa cgaaggccga gcaaagctac gccgtcaatc ccttggtttc  
 240  
 gtctttccaac aaggaatgct cgtaccgcag ctcaactgtg tcgagaacac cgccctaccc  
 300  
 ctcatgttta acggcgtatc ccaaaccgat gcggtcaggt atgccaccca atggcttgaa  
 360  
 tcgatggggt taggcggcat ggaggatcgt cggattgggt agctctccgg gggccaagct  
 420  
 caacgcgtca ctattgcccg gtcccaggta atcgatccgt cgattgtctt cgctgacgaa  
 480  
 cccaccggag cctcgcactc agccaccgcc gtcgaagtca tggccattct gctttcggcg  
 540  
 acgaccgggc ggggacgcac cctcgtcgtc gtcacccatg acgaggacgt tgcccgcgcg  
 600  
 tgccagcgca tccttcatct gcacgacggt cggatcgtct ctgaccacgt acgtcattcc  
 660  
 gatggggagt ggtgatcatg actataacgc cccctatcga accgggaacc gccgatcaaa  
 720  
 ggatccccgtc cctccccgtc cccgagcccc tgggagctac gcccggaagt cttaccactg  
 780  
 ctgcgatcct cagcatgacc ctccgtgcct cagccgctga ccaactccacc tggcggttgc  
 840  
 cggtagttgc tttcgtgtgc attgcaacca tcactctcga cgtcactggc ggtgcgttga  
 900  
 tgatgtggca tctaccggga gacaactctg gcttctacaa gctgacctcg acaattg  
 957

<210> 1994  
 <211> 224  
 <212> PRT  
 <213> Homo sapiens

<400> 1994  
 Xaa Lys Thr Tyr Gly Met Thr Arg Ala Leu Asp His Ile Asp Ile Ala  
 1 5 10 15  
 Ile Pro Ala Gly Gln Ser Val Ala Val Met Gly Pro Ser Gly Ser Gly

```

                20                25                30
Lys Thr Thr Leu Leu His Cys Leu Ser Gly Ile Leu Ser Pro Asp Ser
      35                40                45
Gly Ser Ile Glu Leu Ala Leu Pro Asp Arg Thr Val Asn Val Glu Asn
      50                55                60
Leu Ser Asn Glu Gly Arg Ala Lys Leu Arg Arg Gln Ser Leu Gly Phe
65                70                75                80
Val Phe Gln Gln Gly Met Leu Val Pro Glu Leu Thr Ala Val Glu Asn
      85                90                95
Thr Ala Leu Pro Leu Met Leu Asn Gly Val Ser Gln Thr Asp Ala Val
      100                105                110
Arg Tyr Ala Thr Gln Trp Leu Glu Ser Met Gly Leu Gly Gly Met Glu
      115                120                125
Asp Arg Arg Ile Gly Gln Leu Ser Gly Gly Gln Ala Gln Arg Val Thr
      130                135                140
Ile Ala Arg Ser Gln Val Ile Asp Pro Ser Ile Val Phe Ala Asp Glu
145                150                155                160
Pro Thr Gly Ala Leu Asp Ser Ala Thr Ala Val Glu Val Met Ala Ile
      165                170                175
Leu Leu Ser Ala Thr Thr Gly Arg Gly Arg Thr Leu Val Val Val Thr
      180                185                190
His Asp Glu Asp Val Ala Arg Arg Cys Gln Arg Ile Leu His Leu His
      195                200                205
Asp Gly Arg Ile Val Ser Asp His Val Arg His Ser Asp Gly Arg Trp
      210                215                220

```

&lt;210&gt; 1995

&lt;211&gt; 285

&lt;212&gt; DNA

&lt;213&gt; Homo sapiens

&lt;400&gt; 1995

```

catcaccacc attatcaaca ccatcatcac caccattatc acctttatca ccaccatcat
60
caccatcacc accatcatca ctaccaccat caccgcccac atcatgtgat gactctcaat
120
actgtcctca tcattgtgtga cttggactgt ggaccagccc ctccggctct gctctgctga
180
cctatatctt ttgtctcttg ttccctgagaa gctgggagtt gagaccagat aaggtgttgt
240
acagacactt gtgaccccaa attccatgag acagaggacc tcccn
285

```

&lt;210&gt; 1996

&lt;211&gt; 59

&lt;212&gt; PRT

&lt;213&gt; Homo sapiens

&lt;400&gt; 1996

```

His His His His Tyr Gln His His His His His Tyr His Leu Tyr
1                5                10                15
His His His His His His His His His His Tyr His His His Ala
20                25                30
His His His Val Met Thr Leu Asn Thr Val Leu Ile Met Cys Asp Leu

```

35 40  
Asp Cys Gly Pro Ala Pro Arg Ala Leu Leu Cys  
50 55

```
<210> 1997
<211> 313
<212> DNA
<213> Homo sapiens
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```

400> 1997
ccgctgggtg tgggtgctgct gattggcatg gccatctata ccttcgcga gaaagacctg
60
ggcaagactgc acaagccggt cagcatcggc cggcgcgaga tgtggtggg gctggccatc
120
ggtggcgcca tcggttttta cgacggcgctg ttcgggcccgg gtaccggcag ttctctgatg
180
ttctctgttcg tcggtttttt gcgttttgat ttcttgcatt cttctgccgc ggccaagggt
240
gtcaacctctg ccaccaatgt ggcggcactg tgctttttca ttccacggcg caatgtgctg
300
tatggctacg cgt
313

```

```
<210> 1998
<211> 104
<212> PRT
<213> Homo sapiens
```

[illegible]

```
<210> 1999
<211> 399
<212> DNA
<213> Homo sapiens
```

```
<400> 1999
ccgcggcgcgca agttggaatg gcaaaacatt ttcatgcccg gcgagcaagg tagcttgagt
60
tccactgcgc agagggcgaga tgtgaagtac tccggctactg ttcatattac cgggtgtggc
120
```

ggaagaatgg atcttactct cgctgacctt gagattgtcg ttaacaatgg cgatgatcat  
 180  
 gtgattatgt ctgtgaagtc caagactatg gtcgggcagt tggttgacta tggccgtata  
 240  
 actttcgttg atatgaccgg ctctattacg cagggtcaaa acgatgcagc tcaggttggtg  
 300  
 gggaccaatg tcaagctgaa tagccaagcc gtcgatgcat tcgctggcct ctatcaagct  
 360  
 ggaaagccca tggatgacat cgattcgtcc ttaaagctt  
 399

<210> 2000

<211> 91

<212> PRT

<213> Homo sapiens

<400> 2000

Met	Asp	Leu	Thr	Leu	Ala	Asp	Pro	Glu	Ile	Val	Val	Asn	Asn	Gly	Asp
1				5					10					15	
Asp	His	Val	Ile	Met	Ser	Val	Lys	Ser	Lys	Thr	Met	Val	Gly	Gln	Leu
			20				25						30		
Val	Asp	Tyr	Gly	Arg	Ile	Thr	Phe	Val	Asp	Met	Thr	Gly	Ser	Ile	Thr
		35				40					45				
Gln	Gly	Gln	Asn	Asp	Ala	Ala	Gln	Val	Val	Gly	Thr	Asn	Val	Lys	Leu
	50				55					60					
Asn	Ser	Gln	Ala	Val	Asp	Ala	Phe	Ala	Gly	Phe	Tyr	Gln	Ala	Gly	Lys
65				70					75					80	
Pro	Met	Asp	Asp	Ile	Asp	Ser	Ser	Leu	Lys	Leu					
			85					90							

<210> 2001

<211> 1434

<212> DNA

<213> Homo sapiens

<400> 2001

nngaataag gacgtcataa ttgtctgac agcagtgac ctgactggag gagggacaaa  
 60  
 ttggcagga cccactgca ctatgcagct gctaacggta gctaccagtg tgcagtaaca  
 120  
 ttggtgactg ctggggcagg tgtaacagag gccgactgta aaggctgctc tccctccac  
 180  
 tacgctgcgg cttctgacac ttacaggnag agcgggaaccc catacacctt ccagccatga  
 240  
 tgccgaagag ganncgagcc actgaaggag tcccgacgga aggaggcctt cttctgtctg  
 300  
 gagttcttac tggataacgg tgcagacccc tccctgcggg acaggcaggg ctacacagct  
 360  
 gtgcactatg cagccgccta tggcaacaga cagaacctcg aactgtctct agaaatgtcc  
 420  
 ttttaactgcc tggaggatgt ggagagcacc attccagtc gcccttgca cttagctgcc  
 480  
 tacaacggtc actgtgaagc cttgaagacg ctggcggaga cgctggtgaa tctggacgta  
 540

agggaccaca agggccggac cgcactcttc ctggccacgg agcgcgggctc tactgagtgt  
 600  
 gtggaggtgc ttacagccca cggcgccctct gccctcatca aggagcgcaa gcgcaagtgg  
 660  
 acacccccgc acgccgctgc tgccctctggc cacactgact ccctgcactt gctgatcgac  
 720  
 agtggggaac gagctgacat cacagatgtc atggatgcct atggacagac cccactgatg  
 780  
 ctggccatca tgaatggcca tgtggactgt gtacatctgc tgctagagaa aggatccaca  
 840  
 gctgatgctg ctgacctccg gggccgcact gccctccacc gcggggcagt gactggctgt  
 900  
 gaggactgcc tggctgccct gctggaccac gacgcatttg tgctgtgccg agactttaag  
 960  
 ggccgcacgc ccattcacct ggcctcagcc tgtggccaca ctgcagtact gcggaccctg  
 1020  
 ctgcaggctg ccctttccac agatcccctg gatgccgggg tggattacag cggatactcg  
 1080  
 cccatgcact gggcctccta cactggacat gaagattgtc tggagtgtgt acttgaacac  
 1140  
 agccccgtttt cgtacctgga aggaaacccc ttcactcctt tgcactgtgc agtgattaa  
 1200  
 aaccaagaca gcaccacaga gatgctactg ggagctctgg gtgccaagat tgtgaacagc  
 1260  
 cgagatgccca aaggacggac cccccctcac gccgctgcct tcgcggaaca tgtctctggg  
 1320  
 ctccggatgc tgctgcagca tcaagctgag gtgaacgcca ctgaccacac tggccgcact  
 1380  
 gcgctcatga cggcgggctga gaacggggcag accgctgctg tggaaatttct gctg  
 1434

&lt;210&gt; 2002

&lt;211&gt; 79

&lt;212&gt; PRT

&lt;213&gt; Homo sapiens

&lt;400&gt; 2002

Xaa	Asn	Glu	Gly	Arg	His	Asn	Leu	Leu	Ile	Ser	Ser	Ala	Ala	Asp	Trp
1				5					10					15	
Arg	Arg	Asp	Lys	Phe	Gly	Arg	Thr	Pro	Leu	His	Tyr	Ala	Ala	Ala	Asn
			20					25					30		
Gly	Ser	Tyr	Gln	Cys	Ala	Val	Thr	Leu	Val	Thr	Ala	Gly	Ala	Gly	Val
			35					40				45			
Asn	Glu	Ala	Asp	Cys	Lys	Gly	Cys	Ser	Pro	Leu	His	Tyr	Ala	Ala	Ala
	50					55					60				
Ser	Asp	Thr	Tyr	Arg	Xaa	Ser	Gly	Thr	Pro	Tyr	Thr	Phe	Gln	Pro	
65					70					75					

&lt;210&gt; 2003

&lt;211&gt; 688

&lt;212&gt; DNA

&lt;213&gt; Homo sapiens

&lt;400&gt; 2003

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ntcatgacta cggagacact gaagaaaatt cagattgata ggcagttttt cagcgatgtg
60
attgcagata ccattaagga gttgcaagat tcggccactt acaacagtct cctgcaagct
120
ttgagcaaa agaggggaaaa caaaatgcat ttctatgaca tcatttccag ggaggaaaaa
180
ggaagaaaa agataatatc acttcaaaaa cagctaatta atttcaaaaa ggaatggcaa
240
tttgaagtcc agagtcagaa tgagtatat gctaacctca aggaccaact gcaagagatg
300
aaggcaaaat ccaacttga gaatcgctac atgaaaacca ataccgagct gcagattgcc
360
cagacccaga aaaagtgtaa cagaacagag gaactcttgg tggaagagat tgagaaactc
420
aggatgaaaa ccgaagaaga ggcccggact catcacagaa ttgaaatgtt ccttagaaaa
480
gagcagcagg tgggtcccca cagcttttct atgctttgac ttttttttgg tactctgctt
540
atactgagga aacaaaaaga atattttgaa ggaaaaccaa ccatcattct ttcagcctaa
600
tgaactttag ctcatgtttt ctttcagggt tatgcactct aatagatatc ttatatagct
660
gtaatttgag agagtgcagg taaaattg
688

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&lt;210&gt; 2004

&lt;211&gt; 172

&lt;212&gt; PRT

&lt;213&gt; Homo sapiens

&lt;400&gt; 2004

```

Xaa Met Thr Thr Glu Thr Leu Lys Lys Ile Gln Ile Asp Arg Gln Phe
1 5 10 15
Phe Ser Asp Val Ile Ala Asp Thr Ile Lys Glu Leu Gln Asp Ser Ala
20 25 30
Thr Tyr Asn Ser Leu Leu Gln Ala Leu Ser Lys Glu Arg Glu Asn Lys
35 40 45
Met His Phe Tyr Asp Ile Ile Ser Arg Glu Glu Lys Gly Arg Lys Gln
50 55 60
Ile Ile Ser Leu Gln Lys Gln Leu Ile Asn Phe Lys Lys Glu Trp Gln
65 70 75 80
Phe Glu Val Gln Ser Gln Asn Glu Tyr Ile Ala Asn Leu Lys Asp Gln
85 90 95
Leu Gln Glu Met Lys Ala Lys Ser Asn Leu Glu Asn Arg Tyr Met Lys
100 105 110
Thr Asn Thr Glu Leu Gln Ile Ala Gln Thr Gln Lys Lys Cys Asn Arg
115 120 125
Thr Glu Glu Leu Leu Val Glu Glu Ile Glu Lys Leu Arg Met Lys Thr
130 135 140
Glu Glu Glu Ala Arg Thr His Thr Glu Ile Glu Met Phe Leu Arg Lys
145 150 155 160
Glu Gln Gln Val Gly Pro His Ser Phe Ser Met Leu
165 170

```

<210> 2005  
 <211> 354  
 <212> DNA  
 <213> Homo sapiens

<400> 2005  
 gctagcacca agccaagggt atgtttcctt gcttgcatgt ggggtttctg gccagtcagc  
 60  
 caagtgaact gattgacccc cagccctgtg gggaatttca ggggggtatt gtcttggtca  
 120  
 tcggagtcag ggggtggcctt tnagccaagg ctgcattaac ttttgggaaa agaaatggga  
 180  
 agcccgccgt gtcacagggt ctctgaccg gctgggtagg gtttgccctt atcttacagc  
 240  
 cagtgtctgtg tttgctcaga tggacgcaca tggaaaccag gctaggatca tcttcccaat  
 300  
 gtctactccc tgctttgggtc tgtcctgaaa acaattgcaa agacattgtg gctg  
 354

<210> 2006  
 <211> 111  
 <212> PRT  
 <213> Homo sapiens

<400> 2006  
 Met Phe Pro Cys Leu His Val Gly Phe Leu Ala Ser Gln Pro Ser Glu  
 1 5 10 15  
 Leu Ile Asp Pro Gln Pro Cys Gly Glu Phe Gln Gly Gly Ile Val Leu  
 20 25 30  
 Val Ile Gly Val Arg Gly Gly Leu Xaa Ala Lys Ala Ala Leu Thr Phe  
 35 40 45  
 Gly Lys Arg Asn Gly Lys Pro Ala Val Ser Gln Gly Leu Leu Thr Gly  
 50 55 60  
 Trp Val Gly Phe Gly Leu Ile Leu Gln Pro Val Leu Cys Leu Leu Arg  
 65 70 75 80  
 Trp Thr His Met Glu Thr Arg Leu Gly Ser Ser Ser Gln Cys Leu Leu  
 85 90 95  
 Pro Ala Leu Val Cys Pro Glu Asn Asn Cys Lys Asp Ile Val Ala  
 100 105 110

<210> 2007  
 <211> 335  
 <212> DNA  
 <213> Homo sapiens

<400> 2007  
 nnacgcgtgc catgtgcatg tgtatatgca tgtatgtgcg tatgtgtgtg catgtgtgtg  
 60  
 tgtatatgca tgtgtgtatg tgcattgtacg tgttngtgca tatgcgtgtg catgcatgcg  
 120  
 tgtgcgtatg tgtgcatann catgtgcaca catgtacaca cgtgtacatg ttcattgcatg  
 180  
 tgcacgtgca tatgtgtaca cgtgtatgcg tgtacatgta tgagcatatg tacacgtgtg  
 240

gatgtgtgtg tatgcattgt tgtgtgcaca gatatgcctt ttcctttcat acaggctggt  
 300  
 ttgagtattg ctggtaggca gggacaactt tccgt  
 335

<210> 2008  
 <211> 111  
 <212> PRT  
 <213> Homo sapiens

<400> 2008  
 Xaa Arg Val Pro Cys Ala Cys Val Tyr Ala Cys Met Cys Val Cys Val  
 1 5 10 15  
 Cys Met Cys Val Cys Ile Cys Met Cys Val Cys Ala Cys Thr Cys Xaa  
 20 25 30  
 Cys Ile Cys Val Cys Met His Ala Cys Ala Tyr Val Cys Ile Xaa Met  
 35 40 45  
 Cys Thr His Val His Thr Cys Thr Cys Ser Cys Met Cys Thr Cys Ile  
 50 55 60  
 Cys Val His Val Tyr Ala Cys Thr Cys Met Ser Ile Cys Thr Arg Val  
 65 70 75 80  
 Asp Val Cys Val Cys Met Cys Val Cys Thr Asp Met Pro Phe Pro Phe  
 85 90 95  
 Ile Gln Ala Gly Leu Ser Ile Ala Gly Arg Gln Gly Gln Leu Ser  
 100 105 110

<210> 2009  
 <211> 288  
 <212> DNA  
 <213> Homo sapiens

<400> 2009  
 gacatcaccc cgctgtctggc caaccccaac gggtttctccg cagcgatcga ggaactgggtg  
 60  
 ctgcgttccc caccgcacat cgacgtggtc gtcggcatgg aggctcgcgg ctctctcttc  
 120  
 gcagctccgg tcgccctggc catcggggca ggattcgtgc cggtcgcgca gccgggggaa  
 180  
 ctccccggcc aggtgtattc cgagaccttt gccatggagt acggggaggga gaccctcacc  
 240  
 gtccaccagt acgccatcaa gccgggggtcg cgcgtcatca tcgtcgac  
 288

<210> 2010  
 <211> 96  
 <212> PRT  
 <213> Homo sapiens

<400> 2010  
 Asp Ile Thr Pro Leu Leu Ala Asn Pro Asn Gly Phe Ser Ala Ala Ile  
 1 5 10 15  
 Glu Glu Leu Val Leu Arg Ser Pro Arg Asp Ile Asp Val Val Val Gly  
 20 25 30  
 Met Glu Ala Arg Gly Phe Leu Phe Ala Ala Pro Val Ala Leu Ala Ile

```

          35              40              45
Gly Ala Gly Phe Val Pro Val Arg Lys Pro Gly Lys Leu Pro Gly Gln
   50              55              60
Val Tyr Ser Glu Thr Phe Ala Met Glu Tyr Gly Glu Glu Thr Leu Thr
   65              70              75              80
Val His Gln Tyr Ala Ile Lys Pro Gly Ser Arg Val Ile Ile Val Asp
          85              90              95

```

<210> 2011  
 <211> 384  
 <212> DNA  
 <213> Homo sapiens

```

<400> 2011
ctcgagcagt ctctgcatgt taacaccccc gtacggcccg taaagcataa ccgtctccga
60
cttgccgcgcg cctgcgtgct tcgctaggcg gccggtgaac ccacctgagg gccggatgta
120
gaagtcaacg gtggacgacg ggttgaggagg tttgttgatt ggcgagtgagg gaacgagca
180
gattgtaaat tggtagaacg gggaacagag attagtccaca atgacgagaa cgacaacaga
240
atggttgattg ttatagccat ctctggagga gagggaaaaa gccaggatgc tagacagcga
300
aagcaaatgt gagccgaggg gacagtgcgc tccttcggtc ctcggaact cccacgaggg
360
accttcatt ctgtggcgag aatt
384

```

<210> 2012  
 <211> 123  
 <212> PRT  
 <213> Homo sapiens

```

<400> 2012
Met Glu Gly Ala Ser Trp Glu Leu Pro Arg Asn Glu Gly Arg His Cys
 1              5              10              15
Pro Leu Gly Ser His Leu Leu Ser Leu Ser Arg Tyr Leu Ala Phe Ser
          20              25              30
Leu Ser Ser Arg Asp Gly Tyr Asn Asn Gln His Ser Val Val Val Leu
          35              40              45
Val Ile Val Thr Asn Leu Cys Ser Pro Phe Tyr Gln Phe Thr Ile Cys
          50              55              60
Ser Leu Pro His Ser Pro Ile Asn Lys Pro Ser Asn Pro Ser Ser Thr
          65              70              75              80
Val Asp Phe Tyr Ile Arg Pro Ser Gly Gly Phe Thr Gly Arg Leu Ala
          85              90              95
Lys His Ala Gly Gly Gly Lys Ser Glu Thr Val Met Leu Tyr Gly Pro
          100              105              110
Tyr Gly Gly Val Asn Met Gln Arg Leu Leu Glu
          115              120

```

<210> 2013  
 <211> 309

&lt;212&gt; DNA

&lt;213&gt; Homo sapiens

&lt;400&gt; 2013

gcgtatcccc acggctacgg catgaccgag cttatcggcc cggacctgtc caccgtcgaa  
 60  
 gccttgtctgc cccaggtcca cagcacacaa accccgggtgt acctggccaa tatcaatgcc  
 120  
 gataaccaga cggttatcgc gggcagcgac ggggcaatga aagcagtcgc caatctggtc  
 180  
 cgcggcaacg gcgtcgccaa acgcttgccc gtcagcgtgc cgtcccattg tgcgtctgtg  
 240  
 gaaaaaacctg ccgaaacact ggcccaagcc ttcgctgaag tgacgtgtaa aacgccgncn  
 300  
 nnnccnncn  
 309

&lt;210&gt; 2014

&lt;211&gt; 103

&lt;212&gt; PRT

&lt;213&gt; Homo sapiens

&lt;400&gt; 2014

Ala	Tyr	Pro	His	Gly	Tyr	Gly	Met	Thr	Ala	Leu	Ile	Gly	Pro	Asp	Leu
1				5					10					15	
Ser	Thr	Val	Glu	Ala	Leu	Leu	Ala	Gln	Val	His	Ser	Thr	Gln	Thr	Pro
			20					25					30		
Val	Tyr	Leu	Ala	Asn	Ile	Asn	Ala	Asp	Asn	Gln	Thr	Val	Ile	Ala	Gly
		35					40					45			
Ser	Asp	Gly	Ala	Met	Lys	Ala	Val	Ala	Asn	Leu	Val	Arg	Gly	Asn	Gly
		50				55					60				
Val	Ala	Lys	Arg	Leu	Ala	Val	Ser	Val	Pro	Ser	His	Cys	Ala	Leu	Leu
65					70					75				80	
Glu	Lys	Pro	Ala	Glu	Thr	Leu	Ala	Gln	Ala	Phe	Ala	Glu	Val	Thr	Leu
				85					90					95	
Lys	Thr	Pro	Xaa	Xaa	Pro	Xaa									
				100											

&lt;210&gt; 2015

&lt;211&gt; 329

&lt;212&gt; DNA

&lt;213&gt; Homo sapiens

&lt;400&gt; 2015

acgcgtgccat tgctcgggtat ccgccgccac caccctgtct ttgggaccgg cgagttcacc  
 60  
 gatctaggcg ggcgggacat ggcagtgatg tccttctac gtcacaacga gcacgaaacg  
 120  
 gtctctgtgcc tggctaactc ctccgatact gagcggacgg ttgcccttca ccttcacaaa  
 180  
 ttccgcgggc tggcggggctc ttctctctac catggtcagg acgcgcgaac agtaaaagct  
 240  
 gacggaacac tgtccgtacc gttgtggcca tatggctatc gatggctgca gatgtccggg  
 300

gaggagaggt catgaccgct tgggaagac  
329

<210> 2016

<211> 104

<212> PRT

<213> Homo sapiens

<400> 2016

```

Thr Arg Ala Met Leu Gly Ile Arg Arg His His Pro Val Phe Gly Thr
 1           5           10           15
Gly Glu Phe Thr Asp Leu Gly Gly Pro Asp Met Ala Val Met Ser Phe
          20           25           30
Leu Arg His Asn Glu His Glu Thr Val Leu Cys Leu Ala Asn Leu Ser
          35           40           45
Asp Thr Glu Arg Thr Val Ala Leu His Leu Pro Gln Phe Ala Gly Val
          50           55           60
Ala Gly Ser Ser Leu Ile His Gly Gln Asp Ala Gln Pro Val Lys Ala
          65           70           75           80
Asp Gly Thr Leu Ser Val Pro Leu Trp Pro Tyr Gly Tyr Arg Trp Leu
          85           90           95
Gln Met Ser Gly Glu Glu Arg Ser
          100

```

<210> 2017

<211> 457

<212> DNA

<213> Homo sapiens

<400> 2017

```

accaaggtca gattcatggc ctcttttcct ccagcggcca gcaggaaacg cggggagccc
 60
ttgatcatct ccgacatcaa gaaaggcagc gtggcacaca ggacggggac cctggagcca
120
ggcgacaagc tactggccat tgacaatatc gcctgggaca actgccccat ggaggacgcc
180
gtgcaaatcc tgcggcagtg cgaggacctg gtgaagctga agatccggaa ggacgaggac
240
aactctgatg agctggagac cacagggtgcc gtcagttaca cagtggagct gaagcgctac
300
gggggtcccc tgggcatcac catttcgggc acggaggaac cttttgacct cattttcatc
360
tcaggcctcc ccaaacgtgg cctggctgag aggactggtg ccatccagtg ggggaaccgc
420
ttcggaccat aacaacgtta ttctcagggc cggacca
457

```

<210> 2018

<211> 143

<212> PRT

<213> Homo sapiens

<400> 2018

```

Thr Lys Val Arg Phe Met Ala Ser Phe Pro Pro Ala Ala Ser Arg Lys

```

```

      1           5           10           15
Arg Gly Glu Pro Leu Ile Ile Ser Asp Ile Lys Lys Gly Ser Val Ala
      20           25           30
His Arg Thr Gly Thr Leu Glu Pro Gly Asp Lys Leu Leu Ala Ile Asp
      35           40           45
Asn Ile Arg Leu Asp Asn Cys Pro Met Glu Asp Ala Val Gln Ile Leu
      50           55           60
Arg Gln Cys Glu Asp Leu Val Lys Leu Lys Ile Arg Lys Asp Glu Asp
      65           70           75           80
Asn Ser Asp Glu Leu Glu Thr Thr Gly Ala Val Ser Tyr Thr Val Glu
      85           90           95
Leu Lys Arg Tyr Gly Gly Pro Leu Gly Ile Thr Ile Ser Gly Thr Glu
      100          105          110
Glu Pro Phe Asp Pro Ile Phe Ile Ser Gly Leu Pro Lys Arg Gly Leu
      115          120          125
Ala Glu Arg Thr Gly Ala Ile Gln Trp Gly Asn Arg Phe Gly Pro
      130          135          140

```

&lt;210&gt; 2019

&lt;211&gt; 483

&lt;212&gt; DNA

&lt;213&gt; Homo sapiens

&lt;400&gt; 2019

```

cgcgctcggcg acgattttat cctcgggggtt cggtataccg ccgatgaatg tctcgagaac
60
ggcaccggca aggcggaagg catcgaaatc tccagacggc tgaaggagag cggcctgatc
120
gactatctca acgtcatcag gggacatatc gacaccgatc ccggcctgac cgacgtcatc
180
cccattcagg gcatggcgag cgcgcgccat cttgatttcg caggcgaaat ccgcgcggcg
240
accagcttcc ccgtcttcca tgccgccaaa attcaggatg tcgccaccgc ccggcatgcy
300
attgccgcg gcaagggtcga catgatcgcc atgacccgcg cccacatgac cgatccgcac
360
atcgctccga agatcatgga aaaacaggag gaggacatcc gccctgcgt cggcgccaat
420
tattgtcttg atcgcattta tcaaggcgcc ctcgccttct gcattcaca tgcggcaacc
480
ggc
483

```

&lt;210&gt; 2020

&lt;211&gt; 161

&lt;212&gt; PRT

&lt;213&gt; Homo sapiens

&lt;400&gt; 2020

```

Arg Val Gly Asp Asp Phe Ile Leu Gly Val Arg Tyr Thr Ala Asp Glu
      1           5           10           15
Cys Leu Glu Asn Gly Thr Gly Lys Ala Glu Gly Ile Glu Ile Ser Arg
      20           25           30
Arg Leu Lys Glu Ser Gly Leu Ile Asp Tyr Leu Asn Val Ile Arg Gly

```

[illegible]

<210> 2021

<211> 797

<212> DNA

<213> Homo sapiens

<400> 2021

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120	ccctctctccc	tcagtactcg	cgagactacg	aaaacacgtg	ctgaaatgga	caccgcgtcc
180	gggagccagat	gttccgtcac	cccagaagcc	atactcaata	atgaaaagct	ggctctgcgc
240	ccccgcattct	ccagagtga	cggtcggctg	ttaccctcgc	actacttcca	gggtggtagcc
300	tgggctgtct	tcgtgggcct	ttcctcgccc	accttcggga	tcttcattcc	cttctcgctt
360	cacgcctgga	aatacatcgc	ctatgtggta	tccttttcat	cgtggcatgg	tctaagcggg
420	aggggttctc	ggaggacctc	gcgatggacc	tggctgtggg	gtctgggcca	tggctgccgc
480	gtggccaccg	tcacctgtcc	tgggccagac	tatgtccccc	gagcctgcag	tggggcccag
540	tggcccctta	tggttttggc	cagccccggt	taagggtcag	gccaggccag	cgttgctga
600	gggagttccg	gagagggaat	ctgtcaggag	ggacagcagc	cccctggcgt	ggcgcaggac
660	ccgccctcgt	ggcagccttc	cgctaaaaac	cctgcgcagc	attttgcaca	tggccagccc
720	ctttctcctt	gcccctgggt	ccaaggagga	acagcgccat	gccccgcagg	tcggcagcct
780	gcgtttccat	gccaaagc				
797						

&lt;210&gt; 2022

&lt;211&gt; 135

&lt;212&gt; PRT

&lt;213&gt; Homo sapiens

&lt;400&gt; 2022

```

Met Asp Thr Arg Ser Gly Ser Gln Cys Ser Val Thr Pro Glu Ala Ile
 1             5             10             15
Leu Asn Asn Glu Lys Leu Val Leu Pro Arg Ile Ser Arg Val Asn
      20             25             30
Gly Trp Ser Leu Pro Leu His Tyr Phe Gln Val Val Thr Trp Ala Val
 35             40             45
Phe Val Gly Leu Ser Ser Ala Thr Phe Gly Ile Phe Ile Pro Phe Leu
 50             55             60
Pro His Ala Trp Lys Tyr Ile Ala Tyr Val Val Ser Phe Ser Ser Trp
 65             70             75             80
His Gly Leu Ser Gly Arg Gly Ser Trp Arg Thr Leu Arg Trp Thr Trp
      85             90             95
Leu Trp Gly Leu Gly His Gly Cys Pro Val Ala Pro Val Thr Cys Pro
      100            105            110
Gly Pro Asp Tyr Val Pro Arg Ala Cys Arg Trp Ala Gln Trp Pro Leu
      115            120            125
Met Val Leu Ala Ser Pro Gly
      130            135

```

&lt;210&gt; 2023

&lt;211&gt; 462

&lt;212&gt; DNA

&lt;213&gt; Homo sapiens

&lt;400&gt; 2023

```

naatctccga cgatccctgc cgacgtgctc gccggtgctc tcaagcaggc taaggaggct
 60
cgcaccgcga tccttgaggt gatgaacgag gccatcgatt ctcccgatga aatggccccc
 120
actgctccgc gcatcattac cgtccacatc ccagtgaggaca agatcggtga ggtcatcggc
 180
cccaagggca agatgattaa ccagattcag gacgacactg gcgccaatat ctctattgag
 240
gacgatggca cgattttcat cggggctgat aacggagatt cgcccgagtc tgcccgttcg
 300
atgatcaacg cgatcgctaa cccacagatg cccgaggctg gtgagcggtta cctcggcacc
 360
gtcgtcaaga cgaacgagctt tggcgctttc gtctctctgc tgcccggtgaa ggatggtctg
 420
ttgcacatct ccaagatgag tgaccttaac gacggtaaag gc
 462

```

&lt;210&gt; 2024

&lt;211&gt; 154

&lt;212&gt; PRT

&lt;213&gt; Homo sapiens

&lt;400&gt; 2024

```

Xaa Ser Pro Thr Ile Pro Ala Asp Val Leu Ala Gly Ala Leu Lys Gln

```

1	5	10	15
Ala Lys Glu	Ala Arg Thr	Ala Ile Leu Glu	Val Met Asn Glu
20	25	30	
Asp Ser Pro	Asp Glu Met	Ala Pro Thr	Ala Pro Arg
35	40	45	
His Ile Pro	Val Asp Lys	Ile Gly Glu	Val Ile Gly
50	55	60	
Met Ile Asn	Gln Ile Gln	Asp Asp Thr	Gly Ala Asn
65	70	75	
Asp Asp Gly	Thr Ile Phe	Ile Gly Ala	Asp Asn Gly
85	90	95	
Ser Ala Arg	Ser Met Ile	Asn Ala Ile	Ala Asn Pro
100	105	110	
Val Gly Glu	Arg Tyr Leu	Gly Thr Val	Val Lys Thr
115	120	125	
Ala Phe Val	Ser Leu Leu	Pro Gly Lys	Asp Gly Leu
130	135	140	
Lys Met Arg	Asp Leu Asn	Asp Gly Lys	Arg
145	150		

&lt;210&gt; 2025

&lt;211&gt; 872

&lt;212&gt; DNA

&lt;213&gt; Homo sapiens

&lt;400&gt; 2025

cgtggtaacg atttacagga aagaacagct ggaactcgtg ctgggataac caggtacaag  
 60  
 tgctctctgc agagaataag tgcacacagg ttggtgtctt ctgaccgaga gccctcctga  
 120  
 agggagggtct gtacctcttc cctcatctca ttttacacaa ggcgacaggt cagaggccag  
 180  
 ggtgggacga gagcgaggga gcaactgtctc tggcagcagc acttgccact ccacaatgtg  
 240  
 gagaccagaa cggcacccca gagagcacgg gggaaatggc tcatctttaa aacaatggca  
 300  
 gaagaaatcc agccaaggtc acttttcctg tgtgagcatg ttttaaggcca gagagtggct  
 360  
 acttctctgc ctctcgagc tccctcagtg tggcttgagg gagtgtggca agcttcocga  
 420  
 acacgctgga ggctgctctc cgggtgttcc cactggggac cccagggtct gcacattcct  
 480  
 gcaccgcctc ctgtaactgc agctgaagct ggaaagagac cgagagctc ttgagaggcg  
 540  
 cggaaaaacca atggcgaaat attttgtcac agatgacctg caggttgttg tttacgcgct  
 600  
 gcgctccgca tttgttgact cgtaaatac atcttgaaaa acagtcaaag aaattgcagt  
 660  
 cttcatctcc tgtgcagttt tgctcaagga tttccctcat ttaggttca aaaaaggcca  
 720  
 tgtccacatc aatagccacc actgtgaagt cgctccggat ggcaaagttt tccggcttga  
 780  
 tgtcgagag gtggaggcgg tgggtacagt cctgtctgaa atggttcccc atgtccaaga  
 840

agctgagtgc gaggccctg atggccctgg cc  
872

<210> 2026

<211> 157

<212> PRT

<213> Homo sapiens

<400> 2026

Met	Gly	Asn	His	Phe	Asp	Arg	Asp	Cys	Thr	His	Arg	Leu	His	Leu	Cys
1				5					10					15	
Asp	Ile	Lys	Pro	Glu	Asn	Phe	Ala	Ile	Arg	Ser	Asp	Phe	Thr	Val	Val
			20					25					30		
Ala	Ile	Asp	Val	Asp	Met	Ala	Phe	Phe	Glu	Pro	Lys	Met	Arg	Glu	Ile
			35				40					45			
Leu	Glu	Gln	Asn	Cys	Thr	Gly	Asp	Glu	Asp	Cys	Asn	Phe	Phe	Asp	Cys
			50			55					60				
Phe	Ser	Arg	Cys	Asp	Leu	Arg	Val	Asn	Lys	Cys	Gly	Ala	Gln	Arg	Val
65					70				75					80	
Asn	Asn	Asn	Leu	Gln	Val	Ile	Cys	Asp	Lys	Ile	Phe	Arg	His	Trp	Phe
				85					90					95	
Ser	Ala	Pro	Leu	Lys	Ser	Ser	Ala	Val	Ser	Phe	Gln	Leu	Gln	Leu	Gln
			100					105					110		
Leu	Gln	Glu	Ala	Val	Gln	Glu	Cys	Ala	Asp	Pro	Gly	Val	Pro	Ser	Gly
			115				120					125			
Asn	Thr	Arg	Arg	Ala	Ala	Ser	Ser	Val	Phe	Trp	Lys	Leu	Arg	Gln	Leu
	130					135					140				
Leu	Gln	Ala	Thr	Leu	Arg	Glu	Leu	Gln	Glu	Ala	Glu	Lys			
145					150					155					

<210> 2027

<211> 721

<212> DNA

<213> Homo sapiens

<400> 2027

tgtacaatga cagaccaagt ataaggcttt ggttgagaga ccagctttta aatattgaaa  
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120  
aggggtgttaa tgtcattctt gtctaattca ttacagaatt acagaatcaa atcatgttag  
180  
ccctagaaga aactgcagat catctttgttc aatcttctca ttatatagga aaggaaattt  
240  
gaggggccagt gcaatgggtt gccaaaggta cacaactagt tagtggaagg atccaggcat  
300  
tctaattcct ttctttcact aatacatttg gactgctcta cagaattact tctgtctgat  
360  
actatccact ttgaagagta gctagcatat agtagccatt tacttttggc tcaattaaaa  
420  
gcaaacattt ttgggacaaa atcaggcttt cctgattact tcttagataa cagagcccac  
480  
acagtattaa aacatgcagc ctttctttat gcaaaaagat tgaatatgga gccacttgaa  
540

tcttaaacctt cagtctgcag ctataaccaa tatcatcaga agttatacac aattggcaaa  
 600  
 agaaatagctt attctgccc aatacttgct cagtcactag gatcatttca cttttttgaa  
 660  
 taccatttgc tttggggagg gaagtattgc cagaccgtga attcattatt acctctgatc  
 720  
 a  
 721

<210> 2028

<211> 114

<212> PRT

<213> Homo sapiens

<400> 2028

Met Asn Ser Arg Ser Gly Asn Thr Ser Leu Pro Lys Ala Asn Gly Ile  
 1 5 10 15  
 Gln Lys Ser Glu Met Ile Leu Val Thr Gly Gln Val Phe Gly Gln Asn  
 20 25 30  
 Lys Leu Phe Phe Cys Gln Leu Cys Ile Thr Ser Asp Asp Ile Gly Tyr  
 35 40 45  
 Ser Cys Arg Leu Lys Phe Lys Ile Gln Val Ala Pro Tyr Ser Ile Phe  
 50 55 60  
 Leu His Lys Glu Arg Leu His Val Leu Ile Leu Cys Gly Leu Cys Tyr  
 65 70 75 80  
 Leu Arg Ser Asn Gln Glu Ser Leu Ile Leu Ser Gln Lys Cys Leu Leu  
 85 90 95  
 Leu Ile Glu Pro Lys Val Asn Gly Tyr Tyr Met Leu Ala Thr Leu Gln  
 100 105 110  
 Ser Gly

<210> 2029

<211> 8028

<212> DNA

<213> Homo sapiens

<400> 2029

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 tgggtcaggg aagcctggga aggggaggag gaaggagact agagcaggaa gagcagcggc  
 120  
 gaggcggcgg tgggtggctga gtccgtgggt gcagaggcga aggcgacagc tctagggggt  
 180  
 ggcaccggcc ccgagaggag gatgcgggtc cggatagggc tgacgctgct gctgtgtgctg  
 240  
 gtgctgtctga gcttggcctc ggcgtcctcg gatgaagaag gcagccaggga tgaatcctta  
 300  
 gattccaaga ctactttgac atcagatgag tcagtaaagg accatactac tgcaggcaga  
 360  
 gtagtgtgctg gtcaaatatt tcttgattca gaagaatctg aattagaatc ctctattcaa  
 420  
 gaagaggaag acagcctcaa gagccaagag ggggaaagtg tcacagaaga tatcagcttt  
 480

ctagagtctc caaatccaga aaacaaggac tatgaagagc caaagaaagt acggaacca  
540  
gctttgaccg ccattgaagg cacagcacat ggggagccct gccacttccc ttttcttttc  
600  
ctagataagg agtatgatga atgtacatca gatgggaggg aagatggcag actgtgggtg  
660  
gtacaacct atgactacaa agcagatgaa aagtggggct tttgtgaaac tgaagaagag  
720  
gctgctaaga gacggcagat gcaggaagca gaaatgatgt atcaaatcgg aatgaaatc  
780  
cttaatggaa gcaataagaa aagccaaaa agagaagcat atcgggtatct ccaaaaggca  
840  
gcaagcatga accataccaa agccctggag agagtgtcat atgctctttt atttgggtgat  
900  
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960  
tctcccaagg gacagactgc tcttggtctt ctgtatgcct ctggacttgg tgttaattca  
1020  
agtcaggcaa aggcctctgt atattatata tttggagctc ttggggggcaa tctaatagcc  
1080  
cacatgggtt tgggttacag atactgggct ggcacgcggc tcctccagag ttgtgaatct  
1140  
gccctgactc actatcgtct tgttgccaat catgttgcta gtgatctctc gctaacaggga  
1200  
ggctcagtag tacagagaat acggctgcct gatgaagtgg aaaaatccagg aatgaacagt  
1260  
ggaatgctag aagaagattt gattcaatat taccagttcc tagctgaaaa aggtgatgta  
1320  
caagcacagg ttggtcttgg acaactgcac ctgcacggag ggcgtggagt agaacagaat  
1380  
catcagagag catttgacta cttcaattta gcagcaaatg ctggcaattc acatgccatg  
1440  
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gctctccact accttaagaa agctgctgac atgggcaacc cagttggaca gagtgggctt  
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1620  
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1680  
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1740  
tctcagggag gccatatctt ggctttctat aacctagctc agatgcatgc cagtggcacc  
1800  
ggcgtgatgc gatcatgtca cactgcagtg gagttgttta agaagtgtat tgaacgaggc  
1860  
cgttgggtct aaaggcttat gactgcctat aacagctata aagatggcga ttacaatgct  
1920  
gcagtgatcc agtacctcct cctggctgaa cagggctatg aagtggcaca aagcaatgca  
1980  
gcctttatct ttgatcagag agaagcaagc attgtagggt agaataaacc ttatcccaga  
2040  
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2100

ggagactacc atttctatgg gtttggcacc gatgtagatt atgaaactgc atttattcat  
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catgagaaa gactgggcat taaacaggat attcaccttg cgaacgcttt ttatgacatg  
2280  
gcagctgaag ccagcccaga tgcacaagtt ccagctcttc tagccctctg caaattgggc  
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2580  
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2640  
acacttgcat ttgatttagg accttgatc agtggtcacc tcccagaaga ggcaaggcac  
2700  
aagggaagcat tgaattccta aagctgctta gaattctgat cctttatctt cagggataag  
2760  
taactcttac cttaaactgag ctgaatgttt gtttcagtgc catatggaat aacaactttc  
2820  
agtggccttt tttttcttt tctggaaca tatgtgagac actcagagta atgtctactg  
2880  
tatccagcta tctttcttgg atccttttgg tcattatttc agtgtgcata agttcttaat  
2940  
gtcaaccatc ttttaaggat tgtgcatcga cactaaaaac tgatcagtg taaaaaggaaa  
3000  
accagttgc aagtttaaac gtgttcgaaa gtctgaaaaa agaacttgcc ttttaagtta  
3060  
aaaaaaaaa aaaagctatc ttgaaaatgt tttggaactg cgataactga gaaacttctt  
3120  
accagttccac atgcaattaa acatattcag catatttggt atttttaaag ggagggttgg  
3180  
gaggtttctt attggtgatt gtcacacggt ataccatact cctctccttc aaagaatgaa  
3240  
aggccttggt aaggagtttt ttgtgagcct tacttcttgg gaatggaata tacttatgca  
3300  
aaaccttggt aactgactcc ttgcactaac gcgagtttgc cccacctact ctgtaatttg  
3360  
ctgttttgtt ttgaatataa cagagccttg atccagaagc cagaggatgg actaagtggg  
3420  
agaaaattaga aaacaaaacg aactctgggt ggggtactac gatcacagac acagacatac  
3480  
ttttcctaaa gttgaagcat ttgttccag gatttatctt accttgcatt tttttttgca  
3540  
caaagaacac atcaccttcc tgaattcttt aaatatgaaa tatcattgcc agggatgagg  
3600  
ttacagtgc tactattata atactaaaac tcagagaatc aaagatggat taaactcagt  
3660  
ggttgatgaa agccaaaacc tgttgttact gttctatact attcaggtat ctttttatct  
3720

ctgatatgttt tatattataa tagaaagcca gccactgctt agctatcata gtcaccattt  
3780  
tctcactgtt aacattagga aaatcaaggc tactatgctt caggattgtc tgggttaaata  
3840  
gtatgggaaa aaaactgaag agtttcaaca taattacaca cgtgaaataa ttacagctta  
3900  
aactgaattt gtatttcatt ttattgtcag atgggtgggt toaccagcct gtatcttgtc  
3960  
tgagactgca ttcgtatctg agcagggttt ctatgcctac tgatgtcagt atgtttatac  
4020  
taaccttcac gcttttttcc cagaatccct catctgccag aaaacttgaa aagtttattg  
4080  
cttgtagagt tgtactgctt tgatttttga agttggggta gtagttagaa ctagatttaa  
4140  
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&lt;210&gt; 2030

&lt;211&gt; 794

&lt;212&gt; PRT

&lt;213&gt; Homo sapiens

&lt;400&gt; 2030

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 Thr Thr Ala Gly Arg Val Val Ala Gly Gln Ile Phe Leu Asp Ser Glu  
 50 55 60  
 Glu Ser Glu Leu Glu Ser Ser Ile Gln Glu Glu Asp Ser Leu Lys  
 65 70 75 80  
 Ser Gln Glu Gly Glu Ser Val Thr Glu Asp Ile Ser Phe Leu Glu Ser

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Pro	Asn	Pro	Glu	Asn	Lys	Asp	Tyr	Glu	Glu	Pro	Lys	Lys	Val	Arg	Lys														
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Pro	Ala	Leu	Thr	Ala	Ile	Glu	Gly	Thr	Ala	His	Gly	Glu	Pro	Cys	His														
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565                      570                      575
Gln Tyr Leu Leu Leu Ala Glu Gln Gly Tyr Glu Val Ala Gln Ser Asn
580                      585                      590
Ala Ala Phe Ile Leu Asp Gln Arg Glu Ala Ser Ile Val Gly Glu Asn
595                      600                      605
Glu Thr Tyr Pro Arg Ala Leu Leu His Trp Asn Arg Ala Ala Ser Gln
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Gly Tyr Thr Val Ala Arg Ile Lys Leu Gly Asp Tyr His Phe Tyr Gly
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Met His Glu Lys Gly Leu Gly Ile Lys Gln Asp Ile His Leu Ala Lys
675                      680                      685
Arg Phe Tyr Asp Met Ala Ala Glu Ala Ser Pro Asp Ala Gln Val Pro
690                      695                      700
Val Phe Leu Ala Leu Cys Lys Leu Gly Val Val Tyr Phe Leu Gln Tyr
705                      710                      715                      720
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725                      730                      735
Gln Leu Leu Gly Pro Glu Trp Asp Leu Tyr Leu Met Thr Ile Ile Ala
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&lt;210&gt; 2031

&lt;211&gt; 662

&lt;212&gt; DNA

&lt;213&gt; Homo sapiens

&lt;400&gt; 2031

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<210> 2032

<211> 195

<212> PRT

<213> Homo sapiens

<400> 2032

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His	Leu	Leu	Gly	Gly	Trp	Met	Lys	Pro	Ala	Glu	Gln	Arg	Ser	Ala	Ile
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Ala	Ala	Asp	Val	Leu	Val	Met	Ala	Ala	Pro	Met	Tyr	Asn	Phe	Ala	Ile
			85						90				95		
Pro	Ser	Thr	Leu	Lys	Ala	Trp	Leu	Asp	His	Val	Leu	Arg	Ala	Gly	Val
		100					105						110		
Thr	Phe	Lys	Tyr	Thr	Ala	Thr	Gly	Pro	Gln	Gly	Leu	Leu	His	Gly	Lys
		115					120					125			
Arg	Ala	Ile	Val	Leu	Thr	Ala	Arg	Gly	Gly	Ile	His	Thr	Gly	Ala	Ser
	130					135					140				
Ser	Asp	His	Gln	Glu	Pro	Tyr	Leu	Arg	Gln	Val	Met	Ala	Phe	Ile	Gly
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Ile	His	Asp	Val	Thr	Phe	Ile	His	Ala	Glu	Gly	Val	Asn	Leu	Ser	Gly
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Asp	Phe	Gln	Glu	Lys	Gly	Leu	Asn	His	Ala	Lys	Ala	Leu	Leu	Ala	Gln
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Leu	Val	Ala													
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<210> 2033

<211> 380

<212> DNA

<213> Homo sapiens

<400> 2033

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<210> 2034

<211> 106

<212> PRT

<213> Homo sapiens

<400> 2034

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		35					40				45				
Lys	Ala	Lys	Asn	Lys	Val	Thr	Asp	Gln	Pro	Val	Gly	Thr	Gly	Pro	Tyr
		50				55				60					
Gln	Ile	Asp	Ser	Tyr	Lys	Arg	Ser	Gln	Lys	Ile	Val	Leu	Lys	Gln	Phe
		65			70				75					80	
Lys	Asp	Tyr	Trp	Gln	Gly	Thr	Pro	Lys	Leu	Lys	Arg	Ile	Asn	Val	Thr
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Tyr	His	Glu	Asp	Gly	Asn	Xaa	Arg	Val	Asp						
		100						105							

<210> 2035

<211> 495

<212> DNA

<213> Homo sapiens

<400> 2035

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<210> 2036  
 <211> 98  
 <212> PRT  
 <213> Homo sapiens

<400> 2036  
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 Tyr Val Cys Met Tyr Val Cys Met Tyr Ala Xaa Met Phe Pro Phe His  
 35 40 45  
 Leu Ala Cys Leu His Phe Cys Cys Tyr Cys Cys Tyr Leu Cys Val Gly  
 50 55 60  
 Ala Pro Asn Gly Val Pro Tyr Phe Ser Asp Ala Val Phe Ile Phe Leu  
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 Leu Tyr

<210> 2037  
 <211> 327  
 <212> DNA  
 <213> Homo sapiens

<400> 2037  
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 120  
 caaatccaaa caccgcggcc tctggtggcc cgggcttcca tttcccttg aggggcaagg  
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<210> 2038  
 <211> 98  
 <212> PRT  
 <213> Homo sapiens

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Arg Ala Phe Pro Leu Pro Pro Asn Arg Gly Ala Glu Arg Arg Glu Gln
      50                55                60
Arg Arg Gly Leu Cys Gly Pro Gly Gly Ser Glu Cys Val Ser Gly Ala
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His Glu

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&lt;210&gt; 2039

&lt;211&gt; 307

&lt;212&gt; DNA

&lt;213&gt; Homo sapiens

&lt;400&gt; 2039

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120
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300
aacgcgt
307

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&lt;210&gt; 2040

&lt;211&gt; 94

&lt;212&gt; PRT

&lt;213&gt; Homo sapiens

&lt;400&gt; 2040

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Gly Ala Ser Ile Gly Pro Arg Ser Thr Val Lys Asp Pro Trp Leu Ser
      20                25                30
Ala Arg Arg Met Arg Pro Phe Phe Ala Thr Ser Lys Arg Met Pro Pro
      35                40                45
Arg His Met Pro Val Pro Val Leu Ala Gln Ser Leu Ser Met Thr Ala
      50                55                60
Ser Ser Arg Cys Phe Pro Gly Asn Thr Ser Arg Ser Arg Arg Arg Pro
      65                70                75                80
Arg Thr Leu Arg Ser Arg Pro Leu Ser Gln Ser Gly Ser Pro
      85                90

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&lt;210&gt; 2041

&lt;211&gt; 348

&lt;212&gt; DNA

&lt;213&gt; Homo sapiens

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<210> 2042

<211> 116

<212> PRT

<213> Homo sapiens

<400> 2042

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Ala	Gly	Val	Arg	Asn	Ser	Leu	Ala	Gln	Leu	Val	Ala	Lys	Leu	Thr	Leu
		35				40					45				
Pro	Gly	Met	Pro	Asp	Ile	Tyr	Gln	Gly	Cys	Glu	Met	Trp	Asp	Leu	Ser
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Leu	Val	Asp	Arg	Asp	Asn	Arg	Arg	Pro	Val	Asp	Tyr	Glu	Thr	Arg	Asp
65				70				75					80		
Ala	Ala	Leu	Ala	Gly	Trp	Val	Ala	Thr	Pro	Pro	Glu	Glu	Arg	Ala	Ala
		85					90						95		
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<210> 2043

<211> 712

<212> DNA

<213> Homo sapiens

<400> 2043

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 712

&lt;210&gt; 2044

&lt;211&gt; 233

&lt;212&gt; PRT

&lt;213&gt; Homo sapiens

&lt;400&gt; 2044

Asp	Leu	Thr	Val	Ser	Thr	Lys	Pro	Asp	His	Ser	Glu	Val	Thr	Asp	Ala
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Asp	Leu	Ala	Val	Glu	Asp	Ser	Val	Arg	Arg	Ala	Leu	Ser	Arg	Met	Arg
			20					25					30		
Ser	Arg	Asp	Ala	Val	His	Gly	Glu	Glu	Arg	Ala	Asp	Thr	Gly	Asp	Gly
			35				40					45			
Pro	Arg	Arg	Trp	Ile	Ile	Asp	Pro	Ile	Asp	Gly	Thr	Ala	Asn	Phe	Leu
	50				55					60					
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	65				70				75					80	
Gln	Ile	Val	Ala	Ser	Val	Val	Ser	Ala	Pro	Ala	Leu	Lys	Arg	Arg	Trp
			85						90					95	
Trp	Ala	Ala	Arg	Gly	Ser	Gly	Ala	Trp	Ser	Gly	Lys	Ser	Leu	Ala	Ser
			100				105						110		
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Asp	Phe	Trp	Ser	Tyr	Met	Met	Val	Ala	Glu	Gly	Val	Val	Asp	Val	Ala
			165						170					175	.
Cys	Glu	Pro	Glu	Leu	Ser	Leu	His	Asp	Met	Ala	Ala	Leu	Asp	Ala	Ile
			180				185						190		
Val	Thr	Glu	Ala	Gly	Gly	Lys	Phe	Thr	Gly	Leu	Asp	Gly	Lys	Asp	Gly
			195				200					205			
Pro	Trp	Ser	Gly	Asn	Ala	Leu	Ala	Ser	Asn	Gly	Phe	Leu	His	Asp	Gln
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Ala	Leu	Ala	Met	Val	Gln	Pro	Gln	Glu							
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&lt;210&gt; 2045

&lt;211&gt; 406